Kaja Avinash

B.Tech Student | AI & Data Science | IBM Certified Data Scientist

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OBJECTIVE

A motivated B.Tech student specializing in Artificial Intelligence and Data Science at VVIT, with extensive internship experience in AI, Machine Learning, Cloud Computing, Java, and Cybersecurity. Proficient in Python and Java, and passionate about leveraging emerging technologies to address real-world challenges. Seeking a professional opportunity to apply technical skills, contribute to impactful projects, and grow within a dynamic organization.

EDUCATION

Bachelor of Engineering (B.Tech) — Artificial Intelligence & Data Science

Vasireddy Venkatadri Institute of Technology (VVIT), Nambur, Pedakakani, Andhra Pradesh — 522508

September 2023 – June 2027 | CGPA: 8.52

INTERNSHIP EXPERIENCE

Artificial Intelligence Intern

Infosys Springboard

November 2025 – January 2026 (3 months)

- Led development of a Dynamic AI Text Analysis Platform (Internship 6.0) under mentor Ankith Pathak.
- Applied AI and NLP techniques to analyze, interpret, and extract actionable insights from large textual datasets.
- Built intelligent systems for pattern recognition and text-based decision-making.
- Enhanced skills in AI-based data processing, analytical thinking, and real-world AI application development.

AI Intern — Microsoft AICTE Internship Program

Edunet Foundation

April 2025 – May 2025 (2 months) | Gurugram, Haryana, India

- Completed 4-week virtual AI internship conducted by Edunet Foundation in collaboration with AICTE & Microsoft.
- Studied supervised learning, model evaluation, AI ethics, and completed guided assignments.
- Project: Heart Disease Prediction — applied data preprocessing, feature selection, and ML classification using Python & scikit-learn.

Artificial Intelligence Intern

NoviTech R&D; Pvt. Ltd.

January 2025 – March 2025 (3 months) | Certificate ID: AIINE396

- Gained practical experience in AI methodologies, machine learning model building, and deployment.
- Worked on real-time industry projects and collaborated directly with AI professionals.

Java Intern & AWS Intern

Internship Studio (iStudio)

August 2024 – September 2024 (2 months)

- Java: Core Java Programming internship — built a Pizza Billing System using OOP, classes, and control structures.
- AWS: Gained hands-on knowledge of AWS core services, cloud deployment models, and AWS architecture.
- Both roles secured after qualifying the Internship Common Aptitude Test (iCAT).

Cybersecurity & Ethical Hacking Intern

1Stop.ai (via Threat Prism)

January 2024 – April 2024 (4 months)

- Completed 2-month industrial training + 2-month internship in Cybersecurity & Ethical Hacking.
- Mastered ethical hacking, penetration testing, vulnerability assessment, reconnaissance, and footprinting.
- Developed project: "Information Gathering Tool" under expert mentor guidance.

TECHNICAL SKILLS

Programming Languages	Python, Java
AI / Machine Learning	Supervised Learning, Text Analysis, Data Analysis, Model Building, NLP
Libraries & Tools	NumPy, Pandas, scikit-learn
Cloud Computing	AWS Cloud Foundations, AWS Data Engineering
Cybersecurity	Ethical Hacking, Penetration Testing, Vulnerability Assessment
Soft Skills	Analytical Thinking, Problem Solving, Team Collaboration, Communication

PROJECTS

Artificial Intelligence

NarrativeNexus — Dynamic AI Text Analysis Platform

Tech Stack: Python, NLP, AI Text Processing, Data Analysis

github.com/Kaja-avinash/NarrativeNexus

- Built a dynamic AI-powered text analysis platform as part of Infosys Springboard Internship 6.0.
- Applied AI and NLP techniques to analyze, interpret, and extract meaningful insights from large textual datasets.
- Developed intelligent systems capable of pattern recognition and decision-making from text-based data.

Mental Health AI

Tech Stack: Python, Jupyter Notebook, AI, NLP

github.com/Kaja-avinash/mental-health-ai

- Developed an AI-powered application focused on mental health analysis and support using NLP techniques.
- Applied text classification and sentiment understanding to detect mental health indicators from user input.

Gnanadeepti — Agentic Career Counseling Companion

Tech Stack: Python, Jupyter Notebook, Agentic AI

github.com/Kaja-avinash/Gnanadeepti-Agentic-Career-Counseling-Companion

- Built an agentic AI-based career counseling assistant that provides personalized career guidance.
- Leveraged agentic AI principles to reason over user profiles and suggest tailored career pathways.

Machine Learning & Predictive Analytics

Titanic Survival Prediction

Tech Stack: Python, scikit-learn, Pandas, Matplotlib, Seaborn, Random Forest

github.com/Kaja-avinash/Titanic-Survival-Prediction-Project

- Built a classification model to predict passenger survival using the Kaggle Titanic dataset.
- Applied data cleaning, imputation, label encoding, and StandardScaler; trained Random Forest Classifier (100 estimators).
- Evaluated using Accuracy, Precision, Recall, F1 Score, and ROC-AUC metrics.

Credit Card Fraud Detection

Tech Stack: Python, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

github.com/Kaja-avinash/credit-card-fraud-detection

- Developed an ML model to detect fraudulent transactions with high accuracy and minimized false positives.
- Visualized ROC Curve, AUC score, and feature importance; performed misclassification analysis for explainability.

Customer Churn Prediction

Tech Stack: Python, scikit-learn, Pandas, Matplotlib, Seaborn

github.com/Kaja-avinash/Customer-Churn-Prediction

- Predicted bank customer churn using Random Forest Classifier — Accuracy: 0.86, ROC-AUC: 0.84.
- Feature engineering via label & one-hot encoding; generated confusion matrix and ROC curve visualizations.

Car Sales Prediction

Tech Stack: Python, scikit-learn, Pandas, NumPy, Matplotlib, Joblib

github.com/Kaja-avinash/Sales-Prediction

- Forecasted car purchase amounts using Random Forest Regressor — R^2 Score: 0.95, RMSE: 2326.70.
- Exported trained model via Joblib; planned Flask/Streamlit deployment for real-time sales insights.

Iris Flower Classification

Tech Stack: Python, scikit-learn, Pandas, Matplotlib, Seaborn, PCA

github.com/Kaja-avinash/Iris-Flower-Classification

- Multi-class classification of Iris species using Random Forest — achieved ~96.67% accuracy.
- Applied PCA for 2D visualization; generated violin plots, swarm plots, pairplots, and heatmaps.

Heart Disease Prediction

Tech Stack: Python, scikit-learn, Pandas, Jupyter Notebook

github.com/Kaja-avinash/HEART-DISEASE-PREDICTION

- Developed an ML model to predict heart disease likelihood from medical parameters.
- Applied data preprocessing, feature selection, and classification techniques using Python and scikit-learn.

Employee Salary Prediction

Tech Stack: Python, scikit-learn, Pandas, Jupyter Notebook

github.com/Kaja-avinash/Employee-Salary-Prediction

- Built a regression model to predict employee salaries based on experience, role, and other attributes.
- Applied feature engineering, encoding, and model evaluation using standard ML metrics.

Data Analysis & Visualization

Microsoft Elevate Internship — Power BI Project

Tech Stack: Power BI, Data Visualization, Business Intelligence

github.com/Kaja-avinash/MICROSOFT-ELEVATE-INTERNSHIP-POWERBI-PROJECT

- Completed a Power BI project as part of the Microsoft Elevate Internship program.
- Designed interactive dashboards and reports to visualize business data and derive actionable insights.

Global Population Trends Visualization

Tech Stack: Python, Jupyter Notebook, Matplotlib, Seaborn, Pandas

github.com/Kaja-avinash/Global-Population-Trends-Visualization

- Visualized global population data distributions as part of Prodigy Infotech Data Science Internship Task-01.
- Applied EDA techniques to analyze demographic trends and present insights through compelling visualizations.

Road Accident Analysis — Patterns & Predictors of Severity

Tech Stack: Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn

github.com/Kaja-avinash/Road-Accident-Analysis-Uncovering-Patterns-and-Predictors-of-Severity

- Analyzed a real-world road accident dataset to identify patterns, trends, and severity predictors.
- Produced a companion Power BI dashboard for interactive accident data exploration.

Titanic Survivors Analysis — Exploratory Data Study

Tech Stack: Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn

github.com/Kaja-avinash/Titanic-Survivors-Analysis-An-Exploratory-Data-Study

- Performed in-depth EDA on the Titanic dataset including preprocessing, survival factor analysis, and visualization.

Social Media Trend Analysis

Tech Stack: Python, Jupyter Notebook, Pandas, NLP, Visualization

github.com/Kaja-avinash/Social-Media-Trend-Analysis

- Analyzed social media data to uncover trending topics, engagement patterns, and sentiment insights.

Customer Support Ticket Analysis

Tech Stack: Python, Jupyter Notebook, Pandas, NLP

github.com/Kaja-avinash/Customer-Support-Ticket-Analysis

- Analyzed customer support ticket data to identify common issues, resolution patterns, and customer pain points.

DataVista — Exploratory Data Analysis on Real-World Dataset

Tech Stack: Python, Jupyter Notebook, Pandas, Matplotlib, Seaborn

github.com/Kaja-avinash/DataVista-Exploratory-Data-Analysis-on-Real-World-Dataset

- Conducted comprehensive EDA on a real-world dataset; applied statistical analysis and visualizations.

Data Science Capstone Project

Tech Stack: Python, Jupyter Notebook, scikit-learn, Pandas

github.com/Kaja-avinash/Data-science-capstone-project

- End-to-end data science capstone covering data wrangling, EDA, ML modeling, and result presentation.

Computer Vision

AI Face Recognition System

Tech Stack: Python, OpenCV, Jupyter Notebook, Deep Learning

github.com/Kaja-avinash/AI-FACE-RECOGNITION

- Built a real-time face recognition system using AI and computer vision techniques.
- Leveraged OpenCV for image capture and processing; applied face detection and recognition algorithms.

AI Real-Time Face Detection System

Tech Stack: Python, OpenCV, Jupyter Notebook

github.com/Kaja-avinash/AI-Real-Time-Face-Detection-System

- Developed a real-time face detection system using OpenCV and AI-based detection pipelines.

AI HSV Color Tracking with OpenCV

Tech Stack: Python, OpenCV, Jupyter Notebook

github.com/Kaja-avinash/AI-HSV-Color-Tracking-with-OpenCV

- Built a color tracking system using HSV color space and OpenCV to detect and track objects in real time.

AI Motion Detection System

Tech Stack: Python, OpenCV, Jupyter Notebook

github.com/Kaja-avinash/AI-Motion-Detection-System

- Implemented a real-time motion detection system using background subtraction and OpenCV frame differencing.

NLP & Text Analytics

Text Sentiment Analysis

Tech Stack: Python, Jupyter Notebook, NLP, scikit-learn, NLTK

github.com/Kaja-avinash/text-sentiment-analysis

- Built a sentiment analysis model to classify text as positive, negative, or neutral using NLP techniques.
- Applied text preprocessing (tokenization, stopword removal, vectorization) and ML classifiers.

Cybersecurity

Network and Port Scanner

Tech Stack: Python, socket, subprocess, ipaddress (Standard Libraries)

github.com/Kaja-avinash/Network-and-Port-Scanner

- Built a cybersecurity tool for ping sweep-based host discovery and open port scanning on local networks.
- Displays hostnames, IP addresses, and open ports; customizable IP and port range for targeted scans.
- Developed for ethical security auditing as part of Cybersecurity internship training.

File Encryption & Decryption Tool

Tech Stack: Python, Jupyter Notebook, Cryptography

github.com/Kaja-avinash/File-Encryption-Decryption-Tool

- Implemented a file encryption and decryption tool using Python cryptography libraries.
- Supports secure file handling with symmetric encryption for data protection and privacy.

GitHub Profile: github.com/Kaja-avinash | 29 Public Repositories

CERTIFICATIONS

- 30 Days MasterClass in Artificial Intelligence
- Programming in Python — SWAYAM (Dibrugarh University)
- Python Essentials 2
- AWS Academy Graduate — AWS Academy Cloud Foundations
- AWS Academy Graduate — AWS Academy Data Engineering
- IBM Certified in Data Science

REFERENCES

Ankith Pathak
Mentor — Infosys Springboard, Internship 6.0
Organisation: Infosys Springboard
Email: springboardmentor98352@gmail.com
Professional Reference

Dr. T. Sudhir
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References are available upon request. Contact details are indicative — please verify before use.