Vighnesh Sahu

Python Developer

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PROFILE

Motivated Python Developer with hands-on experience in developing data-driven applications, predictive models, and RESTful APIs using frameworks like Django, Flask, and FastAPI. Skilled in machine learning, natural language processing, and data analysis using tools such as TensorFlow, Scikit-learn, NLTK, Pandas, and NumPy. Experienced in deploying solutions with MySQL/MongoDB, and creating interactive web interfaces. Committed to writing clean, maintainable code and building practical solutions that solve real-world challenges.

EXPERIENCE

◆ ***IIIT Guwahati, Programming Club - Councillor*** ***Jan 2025 - Apr 2025***

Contributed to internal tools and open-source projects, including an NLP-based movie genre classifier (85% accuracy) and a spam detector using TF-IDF and Naive Bayes. Deployed apps via AWS/Azure and analyzed social networks using Laplacian centrality.

◆ ***FUTURE INTERNS, INTERNSHIP*** ***May 2025 - June 2025***

Completed a Machine Learning internship at Future Intern, building projects in stock price prediction, sales forecasting, and a customer support chatbot. Applied tools like TensorFlow, Scikit-learn, Pandas, and Flask to deliver real-world solutions.

EDUCATION

Indian Institute Of Information Technology Guwahati

BACHELOR OF TECHNOLOGY: COMPUTER SCIENCE • 2021 - 2025

SKILLS

Core Python • Data Structures • OOP (Object-Oriented Programming)• NumPy • Pandas • Matplotlib • Seaborn • Django • Flask • FastAPI • MySQL • MongoDB • REST APIs • JSON • Docker • AWS • Apache • Jupyter Notebook

Projects

STOCK PRICE PREDICTION USING MACHINE LEARNING

Developed a predictive model to forecast stock prices using TensorFlow Keras, with data manipulation via Pandas and NumPy, and data visualization using Seaborn and Matplotlib. Evaluated model performance using metrics from Scikit-learn. Implemented and trained the model on Google Colab for rapid prototyping.

BUILD A CHATBOT FOR CUSTOMER SUPPORT

Created a rule-based chatbot to answer customer queries using Flask for backend logic and NLTK for natural language processing. Data was processed using Pandas and NumPy, while Scikit-learn was used to implement simple classification for response handling.

Email Spam Detection

Built an email spam detection system using Python, TF-IDF and Multinomial Naive Bayes, achieving 98.49% recall. Text preprocessing was done using NLTK, while Pandas was used for data analysis and cleaning.