Mathavaasekar Ta

Python Developer

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Professional Summary

Python Developer with expertise in automation, machine learning, web application development, and data analytics. Proficient in Python frameworks, data processing, and backend development. Experienced in building production-grade solutions with strong problem-solving abilities and experience in Linux environments and backend systems & data management.

Technical skills

Languages: Python, Bash/Shell scripting, SQL

Frameworks & Libraries: Pandas, Django, Dash, Flask, Scikit-learn, TensorFlow, OpenCV, NumPy, Matplotlib, Plotly, SQLAlchemy, Tkinter, Paramiko

Tools & Technologies: Machine Learning, Linux, HTML, CSS, Jupyter Notebook, Git/GitHub, REST APIs,PostgreSQL, AWS (EC2)

Professional experience

Iberis Software solutions - Python Developer | March 2025 - Present

- Develop and deploy interactive web-based dashboards and applications for data visualization using Python, Django, Dash, and Flask, enabling intuitive data exploration and actionable insights.
- Build and maintain web application architectures with efficient database management and reliable backend systems to ensure smooth functioning of the applications.
- Utilize machine learning models for data analysis and predictive insights, supporting business intelligence and informed decision-making.

Bounteous x Accolite - Operations Engineer | April 2023 - February 2025

- Developed and implemented automation scripts for data processing, analysis, and system monitoring using Python and Bash in a Linux environment.
- Performed backend reconciliation and log analysis to troubleshoot and resolve operational and customer-reported issues.
- Monitored production servers and network systems to ensure uptime, detect anomalies, and maintain overall service reliability.

Projects

Real-time Telecom Traffic Anomaly Detection & Alert System

- Independently Initiated, developed, and implemented a real-time telecom traffic anomaly detection and alert system for PAN India operations using Python and machine learning.
- Reduced revenue loss, improved network reliability, and enhanced client satisfaction through intelligent monitoring and automated alerting

Intelligent Data Visualization & Analytics Dashboard

- Developed a comprehensive web-based data analytics application that enables users to create highly interactive dashboards using Python-based expressions and dynamic filters, supporting in-depth analysis of complex datasets.
- Enabled intuitive and efficient data exploration through natural language interaction while integrating multiple diverse data sources into a single, cohesive, and user-friendly system for seamless analytics and reporting.

Education

- B.E. Mechanical Engineering | Srividya College of Engineering & Technology | 2015 – 2019

Certifications

- Machine Learning Specialization Certification - DeepLearning.AI & Stanford University, Coursera | November 2022

Awards & Recognition

High Flier Award - Recognized for outstanding results and impactful contribution through development of Heimdall, an innovative real-time anomaly detection system that significantly reduced revenue loss and strengthened network reliability across Vodafone Idea's PAN India operations.