Joshua S

AI Developer | Python Developer

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AI Developer with hands-on experience in AI-powered systems, data analytics, and e-commerce automation. Proven ability to drive real-world impact through data scraping, machine learning, and intelligent system design. Adept at converting raw data into actionable insights and AI-driven solutions. Strong collaborator, quick learner, and driven to innovate in fast-paced environments.

TECHNICAL SKILLS

Programming Languages

Python | **JavaScript** | **HTML** | **CSS** | **SQL** | **C** | **Java**

Frameworks

TensorFlow | Keras | Pandas | NumPy | Scikit Learn | Fastapi | Flask | Matplotlib | Django | Next.js

Tools

Git | GitHub | VS Code | Postman | Jupyter Notebook | Google Colab

KEY ACHIEVEMENTS

- **Smart India Hackathon 2024 (Software Edition) Finalists -** Gujarat Technological University, Ahmedabad. Selected among top teams nationwide for Problem Statement 1734 from ISRO
- **Rakathon 2024 (Software Edition) Top 100 Finalists –** Rakuten, Bangalore. Selected from over 8,990+ teams; participated in the 24-hour on-site hackathon at Crimson House with a project on AI-based E-Commerce solutions.

EDUCATION

Karpagam Academy of Higher Education **Sep 2023 - 2027**

B.Tech Artificial Intelligence & Data Science - CGPA : 8.5 *Coimbatore, Tamil Nadu*

WORK EXPERIENCE

INTERN

Stepping Edge *(AI Developer & Python Developer Intern)* **July 2024 - Dec 2024**

At Stepping Edge, I developed web scraping tools to gather data for chatbot training and built an NLP-powered chatbot with intent classification and various other AI-based projects . I also contributed to API integration and documented workflows to support scalable deployment.

Metaverse Association *(AI Developer - Freelance)* **Jul 2024 - Present**

Member of the R&D Club, Department of CSE, Karpagam Academy of Higher Education.

RECENT PROJECTS

github.com/joshhuu

Downscaling of Satellite-Based Air Quality Map

Smart India Hackathon 2024

- Developed a hybrid AI pipeline using Random Forest for gap-filling and CNNs for spatial downscaling of NO_2 satellite data.
- Applied physics-informed modeling for consistency and validated outputs with RMSE and correlation against ground datasets.
- Generated high-resolution NO_2 maps (~100m) to support environmental research, urban planning, and policy-making.

AI-Powered Employee Scheduling Engine

Freelance Project

- Built an AI-powered scheduling and performance tracking system for retail businesses using synthetic datasets and machine learning.
- Developed a real-time task scheduler and feedback engine in Python and JavaScript, enabling dynamic workload allocation and performance visualization for employees across retail environments.

AI Based Shopping Assistant

Rakathon 2024

- Built an AI-Based Shopping Assistant using NLP, AR wearables, and virtual try-on features to enhance customer experience in retail environments.
- Developed the solution using Node.js during a 24-hour hackathon, presenting it as one of the top 100 teams out of 8,990 at Rakuten's Crimson House.

Bitcoin Trend Forecaster

Personal Project

- Built a machine learning system to predict Bitcoin price trends using technical indicators like RSI, MACD, and Moving Averages.
- Trained a Random Forest classifier with Python and Scikit-learn to classify future price movements, supporting investment insights through data-driven signals.

Website Summarizer AI Tool

Personal Project

- Built an AI-powered Website Summarizer using LangChain, Google Gemini API, and BeautifulSoup to extract and summarize key content from URLs or raw HTML.
- Developed the solution with Flask and React, offering users multiple summary formats like bullet points, emoji-based, and detailed markdown, all through a dynamic and responsive frontend.

CERTIFICATIONS

CERTIFICATIONS - DRIVE LINK

- IBM Data Science Professional Certification *(Course 5 / 12)*
- IBM Machine Learning with Python
- IBM Data Analysis with Python
- Python Certification - Infosys Springboard
- Applied Gen-AI Certification - Infosys Springboard