# Joshua S

## Al Developer | Python Developer



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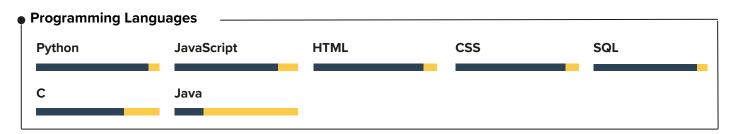
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Al Developer with hands-on experience in Al-powered systems, data analytics, and e-commerce automation. Proven ability to drive real-world impact through data scraping, machine learning, and intelligent system design. Adept at converting raw data into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

## **TECHNICAL SKILLS**



**Frameworks** 

TensorFlow | Keras | Pandas | NumPy | Scikit Learn | Fastapi | Langchain | 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 Al-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 (Al 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 Al-based projects . I also contributed to API integration and documented workflows to support scalable deployment.

Metaverse Association (Al 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 Al pipeline using Random Forest for gap-filling and CNNs for spatial downscaling of NO<sub>2</sub> 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.

## Al-Powered Employee Scheduling Engine

Freelance Project

- Built an Al-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.

# **Al Based Shopping Assistant**

Rakathon 2024

- Built an Al-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 Al Tool

Personal Project

- Built an Al-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, emojibased, 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-Al Certification Infosys Springboard