Varsha. V. S

Software Engineer

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Professional Summary

Computer Science graduate and Python Full-Stack Developer with hands-on internship experience in Django, AI, and Machine Learning. Skilled in building end-to-end web applications, integrating ML models, and working with databases like SQL and MongoDB. Strong foundation in automation (RPA), data structures, and modern development practices. Seeking an entry-level role in Python, Full-Stack, or AI development.

Technical skills

Programming: Python, Java, JavaScript, LLM,Node.js
Frameworks: Django, Flask, TensorFlow, Keras,
Databases: SQL, SQLite, MongoDB
AI & ML Concepts: Machine Learning fundamentals, Prompt Engineering, basic understanding of RAG architecture
Automation: UiPath RPA, Automation Anywhere
Web: HTML, CSS, Bootstrap, Angular
Tools & Frameworks: OOPs, Git, Agile Methodology, Web Scrapping,Azure DevOps.Familiar with OpenAI APIs, LangChain basics, and Hugging Face models
Simulation & Engineering :Python-based simulation & modeling.AI model validation & performance.testing.Failure analysis & optimization.CAD/CAE data handling via Python.Technical documentation & reporting
API Testing: Postman, Swagger.
Unit Testing: Jest, NUnit.
CI/CD: GitHub Actions ,Azure DevOps Pipelines

Experiences

Internship program in Artificial Intelligence at ACADEMOR
10/24 - 12/24
- Project-Navigating ethical AI integration empowering logical solutions for tomorrow
- **Developed using** Machine Learning (ML) models using **Python, scikit-learn, and TensorFlow**.

Intern at Quest Innovative Solutions under the domain of Python Fullstack Development with AI
2025/5/1- now on
Currently serving as a Python Full-Stack Developer Intern at **Quest Innovative Solutions**. Focus on **end-to-end development**
- My role actively involves applying **AI and Machine Learning (ML)** principles to enhance features and optimize application performance and functionality
- Simulation, Modeling & Testing
- Built and tested software prototypes and AI models to validate business and engineering requirements
- Performed data-driven simulations and model evaluations using Python, TensorFlow, and scikit-learn
- Applied impact analysis, model validation, and performance tuning on ML models
- Designed and verified end-to-end workflows from requirement → model → deployment
- Quality, Verification & Debugging
- Created test cases and verification plans for AI and web applications
- Performed debugging, defect fixing, and optimization of Django + AI pipelines

Certifications

RPA UI Path Certificate
currently studying UiPath RPA to build expertise in automation workflows and digital process automation.Level 1

Kaggle Intermediate Machine Learning Certificate
Optimization: Hyper parameter tuning and Gradient Boosting.

Data Engineering: Missing value imputation and Pipelines for clean, reproducible code.

Validation: Implementation of Cross-Validation for model reliability.

Kaggle Advanced SQL Certificate
Analytical Power: Expertise in RANK, LEAD/LAG, and partition-based calculations.
Efficiency: Optimizing queries for large datasets and improving execution time.
Data Logic: Building multi-step logic using CTEs for readable and scalable code.

Kaggle Intro into Deep Learning
Frameworks: TensorFlow and Keras.

Architecture: Building multi-layer perceptrons (dense networks).

Optimization: Mastering loss functions, optimizers, and early stopping

Project

Spices Auction Platform With AI
Website
Developed a web-based auction platform for spices, leveraging AI to enhance buyer-seller interactions and streamline the auction process.
- Real-time auctions with automated bidding
- AI-powered spice grading and quality assessment
- Personalized recommendations for buyers
Built using Python, Django, TensorFlow, Machine Learning

AI App Builder (Lovable Clone)
- Built an AI-powered app builder that creates full project structures from natural language prompts
- Implemented a multi-agent workflow (Planner, Architect, Coder) using LangGraph
- Automatically generates files, implementation steps, and source code
- Enabled rapid prototyping without manual coding
- Tools: Python, LangChain, LangGraph, Streamlit, Groq API (LLaMA 3), Pydantic, Git/GitHub

Student Administration
Web site
- Integrated SMS Functionality:
Self-Service Access: Both Students and Teachers can register their details and log in securely anytime using their unique credentials.
Admin Control : The Admin retains vital control, with exclusive permissions to:
- Approve or Delete student accounts, ensuring data integrity.
- View the Teacher Register for central staff oversight.
Tech Stack Used: Django, MERN stack, Python, JS, CSS, SQLITE

Project-Navigating ethical AI integration empowering logical solutions for tomorrow
- **Developed using** Machine Learning (ML) models using **Python, scikit-learn, and TensorFlow**

Education

Bachelor of Computer Science	06/2022 – 04/2025
Calicut University	NSS college Ottappalam
80 %	

PlusTwo	06/2021 – 03/2022
Parli higher Secondary School,palakkad	
97%	

SSLC 06/2019 – 03/2020
Parli higher Secondary School palakkad
 99%

Soft Skills

Active learning   Effective Communication

Teamwork and collaboration   Adaptability and flexibility

Problem-solving and analytical thinking