



JALADI ASHISH

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PROFESSIONAL SUMMARY

Results-driven Computer Science and Engineering undergraduate specializing in Artificial Intelligence and Machine Learning (CGPA 9.30) with strong expertise in deep learning, natural language processing (NLP), computer vision, and backend development. Proficient in Python, Java, C++, and modern web frameworks, with experience in developing and deploying AI-powered applications. Skilled in LLM integration, Retrieval-Augmented Generation (RAG), LangChain, LangGraph, and vector database optimization. Adept at full-stack development, API integration, and database management. Passionate about Generative AI, transformer models, and scalable backend architectures, with proven success in hackathons, research projects, and production-ready solutions.

EDUCATION

(2022 – Present)

Vellore Institute of
Technology, Chennai

B.Tech – Computer Science & Engineering (Specialization: AI & ML)

CGPA: 9.30

2020 - 2022

Velammal Vidyalaya,
Chennai

Higher Secondary Board Examination

Final grade: 91.3%

2018 - 2020

Arya Central School,
Trivandrum

Secondary Board Examination

Final grade: 95.6%

PROFESSIONAL EXPERIENCE

AI/ML & Backend Development Intern – Primesoft Enterprise IT Services Pvt. Ltd., Chennai May 2025 – Jul 2025

- Contributed to "AI Interview", an AI-driven chatbot application to automate technical interview processes for enterprises.
- Developed backend APIs using FastAPI, ensuring high-performance data handling.
- Managed PostgreSQL (relational) and Neo4j (graph) databases with optimized query performance.
- Integrated LangChain and LangGraph for dynamic question flow and AI-driven evaluation.
- Implemented automated scoring algorithms and candidate evaluation logic, improving interview efficiency by 25%.
- Collaborated with cross-functional teams for scalable deployment and UI/UX optimization.

PROJECTS

Smart Document Chat – AI-powered PDF Q&A System (Python, React, LangChain, LangGraph, FAISS, PyMuPDF, PDF.js)

- Built an interactive chatbot assistant capable of answering questions with textbook-style responses and sentence-level evidence highlighting directly in PDFs.
- Designed a two-pass RAG pipeline using LangChain + LangGraph with FAISS for retrieval and reasoning + teaching answer generation.
- Implemented spaCy + syntok-based segmentation with structural repair and coverage-aware cleaning for precise evidence mapping.
- Integrated a React frontend with PDF.js for seamless navigation, page-level scrolling, and robust annotation display.

Landslide Detection Using Image Segmentation (Python, UNet, Transformer, CRFF)

- Developed a UNet-based segmentation model with transformer and cross-feature fusion for satellite imagery analysis.
- Achieved F1-score 93.8% and IoU 83.5% on Landslide4Sense dataset, surpassing benchmarks.
- Used coordinate attention blocks and edge enhancement for improved precision.
- Processed 14-band HDF5-formatted images for training and evaluation.

Real-Time Stock Prediction System (AWS, SageMaker, S3, Amplify, Random Forest Regressor)

- Built a cloud-based system for real-time stock price prediction and Bollinger Band-based volatility analysis.
- Trained and deployed a Random Forest Regressor on AWS SageMaker using historical market data for robust forecasting.
- Utilized Lambda, Kinesis, Step Functions, and DynamoDB for scalable automation and real-time data processing.

Simon Says Game (HTML, CSS, JavaScript) [\[demo\]](#)

- Built an interactive Simon Says game with engaging and dynamic gameplay.
- Implemented intuitive user interfaces for smooth interaction and visual feedback.
- Added a navigation system to a separate page for game rules, with responsive design and flashing buttons to show user presses.

CERTIFICATIONS

- **Stanford University** – Supervised Machine Learning: Regression and Classification
- **LangChain Academy** – Introduction to LangGraph for Stateful LLM Applications
- **Skill India** – Summer Internship in Android App Development
- **Neo4j Certified** – Fundamentals, Cypher Queries, Graph Data Modeling, Python Integration
- **Bootcamp in Machine Learning** – Core ML algorithms, model evaluation, deployment

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, C
 - **LLM & AI Tools:** LangChain, LangGraph, CrewAI, ChatOllama, FAISS, RAG Pipelines, Prompt Engineering, Vector Databases
 - **Backend Development:** .NET, FastAPI, Node.js
 - **Frontend Development:** JavaScript, HTML, CSS, React, Bootstrap, jQuery, JavaScript
 - **Databases:** SQL, MySQL, PostgreSQL, Neo4j
 - **Tools and Frameworks:** Android Studio, Unity, Latex, Power BI
 - **Cloud Technologies:** AWS
- Other Skills:** Object-Oriented Programming (OOP), Machine Learning, Pandas, OpenCV, Git

ACHIEVEMENTS & ACTIVITIES

- **2nd Place** – National Hackathon "Dataset 2024" (Generative AI theme)
- **1st Place** – "App Marvel" App Development Competition
- **Member** – Data Science Club (Projects Department) at VIT Chennai