Sai Abbhiram Valupadasu

Hyderabad, India — +91 9849786297 — Gmail — LinkedIn — GitHub — Portfolio-Website

Education

B.Tech — Computer Science & Engineering (Business Systems) *2021 – 2024*
Vignana Bharathi Institute of Technology | Hyderabad CGPA: 7.8

Relevant Coursework: Data Structures & Algorithms, DBMS, Software Engineering, ML, AI, Web Development, Operating Systems, Computer Networks, Agile Development.

Experience

Independent Software Developer | Self-Employed | Hyderabad *May 2024 – Present*

- **Spotlight — Real-Time Social Network** *May 2025 – Present*
  - Built a cross-platform app (iOS, Android, Web) with React Native + Expo.
  - Integrated Convex backend for real-time data sync with **under 200ms latency**.
  - Implemented Clerk authentication, reducing login failures by **25%**.
  - *Links:* GitHub
- **Netflix-Clone** *Jan 2025 – April 2025*
  - Built a MERN-based streaming app with secure authentication and responsive media UI, achieving **95% feature similarity** to Netflix core design.
  - Optimized backend APIs (Node.js/Express.js) with MongoDB, reducing query latency by **30%**.
  - *Links:* GitHub

Academic Projects

FashionX | Fashion Recommender System *Jan 2024 – Apr 2024*

- Deep learning based fashion knowledge extraction using social media. Designed a recommender system Using ResNet50 for feature extraction, achieving **92% accuracy** in similarity matching.
- Applied Nearest Neighbors (scikit-learn) for fast retrieval, cutting response time by **40%**.
- Deployed a Dockerized Streamlit app, improving deployment efficiency by **60%**. *Tech:* Python, TensorFlow/Keras, scikit-learn, NumPy, OpenCV, PIL, Streamlit, Docker. *Links:* GitHub

Cartlytics | Market Basket Analysis (FP-Growth) *Aug 2023 – Dec 2023*

- Built an interactive Streamlit app enabling CSV uploads and dynamic threshold tuning, reducing analysis time by **50%**.
- Implemented FP-Growth (mlxtend) to uncover frequent itemsets and association rules, improving recommendation insights by **35%**.
- Visualized results with Plotly/Matplotlib/PyVis, enhancing interpretability for users by **70%**. *Tech:* Python, Streamlit, Pandas, NumPy, scikit-learn, Mlxtend, Plotly, PyVis, Matplotlib. *Links:* GitHub

Technical Skills

- **Programming Languages:** Python, Java, C, SQL, JavaScript.
- **Web Development:** React.js, Next.js, Node.js, Express.js, HTML, CSS, Tailwind CSS, Headless UI.
- **Mobile Development:** React Native, Expo.
- **Databases/BaaS:** MongoDB, MySQL, Convex.
- **AI & ML:** TensorFlow, Keras, scikit-learn, Pandas, NumPy, NLP (NLTK, spaCy), Recommendation Systems.
- **AI/LLM Tools:** Ollama, Hugging Face Transformers.
- **Tools & Platforms:** Git, GitHub, Linux, VS Code, Postman, Clerk, Nodemailer, Cheerio, Cron Jobs.
- **Methodologies:** Asgile Scrum, Object-Oriented Design, REST API Development.

Certifications **view all**

- **Angular** | Infosys Springboard
- **Database Foundations** | Oracle
- **AWS Cloud Foundations** | AWS
- **AWS ML Foundations** | AWS
- **Machine Learning, NLP & Python** | Infosys Springboard
- **The Complete Web Developer Course 2.0** | Infosys Springboard
- **Cyber Security 101** | TryHackMe
- **NDG Linux Unhatched** | Cisco NetAcad