

Sai Abbhiram Valupadasu

Hyderabad, India — Phone — Gmail — LinkedIn — GitHub — Portfolio-Website

Education

B.Tech — Computer Science & Engineering (Business Systems)

2021 – 2024

Vignana Bharathi Institute of Technology

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-Initiated Projects)

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

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

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

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: Agile Scrum, Object-Oriented Design, REST API Development.