VISHNU B P

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LinkedIn GitHub

Career Objective

Final-year Computer Science Engineering student specializing in building scalable **data pipelines**, **automating workflows**, and **Full Stack Development**. Experienced in data ingestion, API integration, and architecting robust systems to support AI/ML analytics. Seeking a role as a **Software Engineer** or **Data Engineer**.

Education

- **Visvesvaraya Technological University** — *Dec 2022 – June 2026 (Expected)*
  B.E in Computer Science Engineering — Hassan, India
- **ASC Pre-University College** — *June 2021*
  Pre-University Education — Bengaluru, India

Skills

- **Programming:** Python (Pandas, NumPy, Regex, asyncio), Java, JavaScript
- **AI/ML:** TensorFlow, Keras, Scikit-learn, XGBoost, NLP, Gemini API, OpenRouter
- **Web Development:** FastAPI, Flask, Streamlit, React.js, Node.js, React Native, Render, CSS, JavaScript
- **Databases:** MySQL, MongoDB, XML, SQLite3, Supabase, PostgreSQL
- **Tools & Platforms:** AWS, Git/GitHub, RabbitMQ, Expo, Langflow, Clerk, Cloudinary, Postman
- **Soft Skills:** Problem Solving, Self-Learning, Team Collaboration, Presentation, Adaptability

Internship

- **Software Engineer Intern** — *November 2025 – Present*
  Company: Scaleswift Digital Services LLP — Bangalore, India
  - Engineered a secure authentication bridge merging **Clerk** identity management with **Supabase** backend services, implementing custom **JWT injection** to enforce granular **PostgreSQL Row Level Security (RLS)** policies.
  - Developed a high-performance cross-platform mobile application using **React Native** and **Expo SDK**, ensuring a seamless and consistent user experience across both iOS and Android environments.
  - Designed a real-time streak tracking algorithm executing optimized **SQL queries** on **Supabase**, transforming raw timestamped logs into actionable user insights displayed via a custom **React Native** UI.
  - Integrated a scalable AI mediation layer using **OpenRouter**, orchestrating asynchronous **API calls** to leverage multiple LLMs for generating dynamic, context-aware recovery insights.

Projects

- **Dynamic, Grounded Movie Recommendation Engine** — *October 2025*
  [Tools: [Python, FastAPI, Gemini API (RAG), REST API, Uvicorn, Tailwind CSS, Firebase, Open LLM]
  - **Engineered** a robust, full-stack application using Python/FastAPI to create a secure API proxy, effectively decoupling application logic from the presentation layer.
  - **Implemented Retrieval-Augmented Generation (RAG)**, utilizing the **Gemini API** and Google Search Grounding to provide factually accurate, real-time movie recommendations.
  - **Deployed** the project on **Render**, optimizing static asset configuration to successfully serve the responsive Tailwind CSS frontend directly from the Python backend with high availability.
- **Health GPT: AI-Powered Predictive Healthcare** — *March 2025*
  Tools: TensorFlow, Keras, Flask, Docker, Logistic Regression, Decision Tree, CNN
  - **Architected** a multi-modal diagnostic system, training **CNNs** for medical image analysis and **Logistic Regression/Decision Trees** for tabular patient data, achieving high accuracy across diverse datasets.
  - Developed a scalable RESTful API using **Flask** to serve real-time health predictions and containerized the entire ecosystem with **Docker** for seamless, environment-agnostic deployment.
- **Gate Pass Management System (GPMS)** — *April 2025*
  [Tools: Flask, Express.js, MongoDB, XGBoost, EJS, Bcrypt, RBAC, QR Code]
  - Implemented **Role-Based Access Control (RBAC)** and secure **bcrypt** authentication to manage permissions for three distinct user archetypes: Student, Warden, and Security.
  - Designed a secure verification workflow where Wardens approve requests to generate tamper-proof **QR Codes**, integrating Flask microservices for logic processing and Express.js for user management.

Certifications

- **TensorFlow: Neural Networks and Working with Tables, Images, NLP– LinkedIn** — *Oct 2025*
- **Introduction to Prompt Engineering for Generative AI– LinkedIn** — *Oct 2025*
- **Technology Innovation and Management– Open University** — *Oct 2025*