

VISHNU B P

+91 8197697046 | vishnubp71@gmail.com | Portfolio



CAREER OBJECTIVE

Final-year Computer Science Engineering student specializing in building scalable **data pipelines** and **automating data workflows**. Experienced in data ingestion, API integration, and creating robust systems to support AI/ML and analytics. Seeking a **Data Engineer** role to design and implement efficient, reliable data solutions

EDUCATION

- **Visvesvaraya Technological University** Dec 2022 – August 2026(Expected)
Hassan, India
B.E in Computer Science Engineering
 - CGPA: 8.3/10.00
- **ASC Independent PU College** June 2020
Bengaluru, India
Pre-University Education
 - Grade: 85%

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, separating the application logic from the presentation layer.
 - **Implemented Retrieval-Augmented Generation (RAG)**, utilizing the Gemini API and Google Search Grounding to provide factually accurate and up-to-date recommendations.
 - **Secured** the application by running the LLM logic exclusively on the FastAPI backend, ensuring the Gemini API Key remains protected and hidden from the client.
 - **Designed** a resilient pipeline using custom Python logic to reliably extract and parse the structured JSON output from the LLM, resolving initial parsing conflicts (JSON mode vs. RAG).
 - **Deployed** the project using Render, utilizing an absolute path configuration to successfully serve the responsive Tailwind CSS frontend from the Python backend.
- **Health GPT : AI-Powered Predictive Healthcare** March 2025
Tools: TensorFlow, Keras, Flask, Docker, Logistic Regression, Decision Tree, CNN
 - **Architected** and trained classification models (**Logistic Regression, Decision Tree, and CNN**) to predict diseases, achieving high accuracy metrics across varied datasets.
 - Utilized **VGG16** and **Keras** to establish a **Deep Learning pipeline** for processing complex data (e.g., medical images), significantly enhancing predictive insight reliability.
 - Developed a scalable RESTful API using the **Flask** framework to serve real-time health predictions, and containerized the entire system with **Docker** for seamless 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 for three distinct users: Student, Warden, and Security.
 - Developed dynamic dashboards allowing students to track status and Security personnel to verify approved passes at the gate.

[Dynamic Portfolio- Built using MERN Stack](#)

SKILLS

- **Programming:** Python (Pandas, NumPy, Regex, asyncio), Java
- **AI/ML:** TensorFlow, Keras, Scikit-learn, XGBoost, NLP, Gemini API
- **Web Development:** FastAPI, Flask, Streamlit, React.js, Node.js, Render, CSS, JavaScript
- **Databases:** MySQL, MongoDB, XML, SQLite3, PostgreSQL
- **Tools Platforms:** AWS, Git/GitHub, RabbitMQ, n8n, Langflow, Cloudinary, Postman
- **Soft Skills:** Problem Solving, Self-Learning, Team Collaboration, Presentation, Adaptability

CERTIFICATIONS

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