

VAMSHI KRISHNA MANDAPURI

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<https://vamshikrishnamandapuri.github.io/Portfolio/>

PROFESSIONAL SUMMARY

AI/ML Engineer with one year of professional experience, including a six-month internship, specializing in Python development, machine learning, API integration, and database administration. Skilled in building AI-powered automation platforms, intelligent mobile applications, and data-driven dashboards. Strong knowledge of Google Cloud Platform (GCP) and Supabase for scalable database solutions. Experienced in leading teams, optimizing system performance, and delivering measurable business results.

EDUCATION

Master of Computer Applications (MCA), Wesley PG College, Secunderabad – CGPA: 8.0, 2023

Bachelor of Science in Computer Science, Vasundara Degree College, Secunderabad – CGPA: 8.8, 2021

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript

Machine Learning: Scikit-learn, Natural Language Processing, Predictive Modeling, Clustering, Feature Engineering

Frameworks & Tools: Flask, FastAPI, React Native (Expo), Selenium, BeautifulSoup, Power BI, Supabase, PostgreSQL, MySQL

APIs: Google Maps API, Google Places API, Gmail API, Calendar API, Gemini AI API, REST APIs, OAuth 2.0

Cloud & Database: Google Cloud Platform (Database Instances, API Key Management, Authentication Context Setup), Supabase (Project-based Database Management)

Data Processing: Regular Expressions, ETL, Data Cleaning, Data Normalization

Soft Skills: Leadership, Problem-Solving, Cross-Functional Collaboration

WORK EXPERIENCE

AI/ML Engineer (Line Rep / Team Lead)

IITLABS (Innosoul Inc.) | Aug 2024 – Present

- RFP Dashboard & Automation (Completed):
 - Led development of a Python-based automation platform, reducing RFP processing time by 60% and improving classification accuracy by 70%.
 - Served as Database Administrator — created and managed GCP database instances, configured API authentication contexts, and generated secure API keys.
 - Migrated database infrastructure to Supabase, creating separate projects for each database, optimizing schema, and ensuring query efficiency.
 - Designed advanced regex parsers (95% accuracy), implemented Gmail/Calendar API integrations, and optimized database queries for real-time dashboard updates.
- Location-Based Reminder Application (Ongoing):
 - Leading the design and development of a mobile app using React Native (Expo), Google Maps API, Google Places API, Gemini AI API, and Supabase.
 - Implemented smart location tracking, place search, and AI-based reminder categorization for enhanced user experience.
 - Designed and managed Supabase database schema, optimized queries, and ensured secure API access.
 - Integrated real-time push notifications triggered by geofence entry, enabling context-aware reminders.
- HR Dashboard (Ongoing):
 - Contributing to development of a web-based dashboard for US IT recruiters to track resume submissions based on job descriptions.
 - Built functionality for displaying all related resumes in a centralized webpage filtered by submission date.
 - Developed API endpoints for data retrieval and notification triggers.
 - Configured OAuth authentication contexts, scopes, and integrated APIs with secure access controls.
 - Managed database schema, indexing, and performance optimization to ensure fast retrieval of submission data.
 - Implemented automated email notifications to recruiters at submission time.

Python Developer (Intern)

JT Wisdom Technology Pvt Ltd | Dec 2022 – Mar 2023

- Automated healthcare administrative processes using Selenium and BeautifulSoup, reducing manual workload by 20%.
- Enhanced data preprocessing pipelines to improve analytics accuracy and reporting quality.

PROJECTS

RFP Dashboard and Automation | March 2025 – Jun 2025

Technologies: Python, Flask, FastAPI, Gmail API, Calendar API, Supabase, PostgreSQL, Regex, HTML, CSS, JavaScript, Pandas, NumPy, Scikit-learn, NLP, AWS

- Built an AI-driven automation platform to extract, classify, and visualize RFP opportunities from over 10,000 unstructured emails.

- Developed regex parsers and applied NLP tokenization for key field extraction with 95% accuracy.
- Designed and optimized PostgreSQL schema with indexing and partitioning for high-performance querying.
- Implemented fuzzy matching and keyword classification in Scikit-learn, reducing unclassified entries by 20%.
- Created batch API processing and caching layers to improve API efficiency by 25%.
- Delivered a Flask-based web dashboard with dynamic data filtering and visualization.
- Secured API access with OAuth 2.0 and JWT tokens.

Location-Based Reminder Application (Ongoing) | June 2025 – Present

Technologies: React Native (Expo), Google Maps API, Google Places API, Gemini AI API, Supabase, PostgreSQL, REST API

- Developing a mobile application for location-aware reminders with customizable search radius and specific location targeting.
- Integrated Google Maps API for real-time tracking and Google Places API for nearby location search.
- Applied Gemini AI API for semantic categorization of reminders for improved relevance.
- Managed Supabase database design and administration, implementing secure and optimized queries.
- Built push notification functionality triggered by geofence entry.

HR Dashboard (Jan 2025- Feb 2025)|

Technologies: Python, Flask, REST API, OAuth 2.0, Supabase, PostgreSQL, HTML, CSS, JavaScript

- Designed and implemented database schema for storing and retrieving resume submissions by date.
- Developed secure REST API endpoints for submission tracking and recruiter notifications.
- Configured OAuth authentication contexts, scopes, and implemented secure API integration.
- Built web UI to display resumes linked to job descriptions with filtering by submission date.
- Integrated automated email alerts to recruiters upon new submissions.

GDP Analysis Project using Power BI

Technologies: Power BI, Power Pivot, Power Map, DAX, ETL

- Conducted ETL processes to clean IMF GDP datasets for visualization.
- Created dashboards with DAX measures and geo-spatial visualizations in Power Map.

Crime Rate Prediction and Analysis using K-means Clustering

Technologies: Python, Pandas, NumPy, Scikit-learn, HTML, CSS

- Developed a K-means clustering model to segment crime data by geography, time, and type, achieving 90% accuracy.
- Built an HTML/CSS dashboard to visualize crime patterns and hotspots.

CERTIFICATIONS

Power BI Developer – Mahendar Academy Pro, Mar 2024 – May 2024

HOBBIES

Playing Badminton, Chess