AMARNATH UDAYA SHET

Honnavar, Karnataka

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Profile Summary

Software Engineer skilled in Python, SQL, and full-stack development with experience in AI/ML, automation, and cloud technologies. Passionate about building scalable applications, optimizing algorithms, and developing reliable software systems.

Technical Skills

- **Programming & Scripting:** Python, C, SQL, HTML, CSS
- **Frameworks & Libraries:** Flask, Streamlit, TensorFlow, Scikit-learn, OpenCV
- **Database & Tools:** MySQL, SQLite, Git/GitHub, VS Code, PyCharm
- **Concepts:** OOP, Data Structures & Algorithms, REST APIs, Software Design
- **Cloud & Automation:** Google Cloud Platform, UiPath, Make, Vertex AI, GenAI SDK

Work Experience

InternPE – Python Developer | Jaipur, Rajasthan   **Feb 2025 – May 2025**

- Implemented advanced data structures and algorithms (Graph, Segment Tree, DP).
- Developed automation scripts and chatbot applications using NLP libraries (NLTK, Transformers).
- Built user authentication, search functionality and AI models for predictive tasks.
- Managed databases and developed responsive front-end using Streamlit, HTML, CSS and JavaScript.

Projects

AI-Enabled Leaf Disease Detection System

- Farmers face significant yield loss due to delayed identification of crop plant diseases.
- Tasked to create an efficient AI solution to accurately detect leaf diseases from images.
- Built CNN-based model and deployed backend REST APIs in Python for scalable predictions.
- Achieved **90% accuracy**, improving overall agricultural productivity and better decision-making.

Customer Satisfaction Prediction

- Companies struggle to measure customer satisfaction effectively from support tickets.
- Develop an ML pipeline to predict satisfaction levels.
- Cleaned data, applied feature engineering, and trained models (Logistic Regression, Random Forest).
- Delivered accurate predictions, helping improve customer service strategies.

Google Cloud GenAI SDK Experiments

- Prototyped multimodal AI apps with text, image, video, and document inputs using Gemini 2.0.
- Implemented RAG for search and summarization, showcasing GenAI use cases with Vertex AI SDK.

Certifications and Awards

- **Programming for Everybody (Getting Started with Python) – Coursera**
- **GenAI – Google Cloud**
- **Make Automation Certificate**

Education

Canara Engineering College   **2021 – 2025**
B.E in Computer Science: 8.1 CGPA   Mangalore, Karnataka