Pavan D

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EDUCATION

Bangalore Institute of Technology - VV Puram, Bangalore, India *CGPA: 8.44/10*
Computer Science and Engineering (Data Science) December, 2022 – Present

Pre-University Education Deeksha CFL PU College - Bangalore, India *Percentage: 65%*
PCMB June, 2020 – July, 2022

TECHNICAL SKILLS

- **Programming Language**: Python.
- **Preprocessing:** Feature Engineering, Data Processing.
- **Machine Learning and Deep Learning**: Supervised learning, Unsupervised learning, Reinforcement Learning, Generative AI.
- **AI Tools, Frameworks & Libraries:** Python, numpy, pandas, matplotlib, scikit-learn, Classification, Regression, Random Forest, CNN, LLMs.
- **Data Science**: EDA, SQL(MySQL), MS Excel, ETL, Tableau, PowerBI.
- **Editors and other technologies**: VS Code, Jupyter Lab, MiniConda, Figma.

PROJECTS

1. **CLARITY** *1st April, 2025 – Present*

   Working with a team to develop a multimodal AI system for automated chest X-ray diagnosis using CNNs, RNNs, and Generative AI. Integrated disease prediction, radiology report generation, and visual explainability using Grad-CAM. Focused on combining image and text modalities to enhance diagnostic accuracy and interpretability.

2. **EduGenie** *6th March, 2025 – 31st May, 2025*

   Gemini API | Figma | FLLMs | Tailwind CSS | PyMuPDF | FastAPI | React.js | Node.js

   I led the frontend development of an AI-powered result analysis tool using React.js, Tailwind CSS, and Figma for responsive UI design. I co-developed the backend by integrating FastAPI, LangChain, and Google Gemini API for intelligent analysis. Implemented OCR with PyMuPDF to extract text from result sheets. Ensured smooth communication between Python and Node.js services for seamless performance.

3. **Efficient Diabetes Risk Prediction Using KNR Models** *13th Nov, 2024 – 25th Dec, 2024*

   Python | NumPy | Scikit-learn (KNN & Random Forest) | Matplotlib/Seaborn

   I led a team to develop a machine learning-based diabetes risk prediction system using KNR and Random Forest, achieving 83% accuracy. Focused on feature selection, data preprocessing, and handling class imbalance for improved predictions. Utilized Python, Scikit-learn, and Pandas to classify individuals into No Diabetes, Pre-Diabetes, and Diabetes. Demonstrated the impact of machine learning in early healthcare diagnostics.

4. **InterConnect** *13th Oct, 2024 – 18th Dec, 2024*

   ETL | BigQuery | Microsoft Power BI

   Managed the design, storytelling in a 4-member team to build an interactive dashboard analyzing opinion gaps between Students, Faculty, and Clubs. Contributed to data collection, ETL processing with BigQuery, and visualization using Power BI, ensuring impactful insights. Helped the team secure 2nd place in a technical competition.

ACHIEVEMENTS

- 2nd Place in **IoT Project Exhibition**
- Secured 2nd Place in the **"Turn Data into Stories"** exhibition on December 18, 2024 for the **InterConnect** Project
- 2nd Place in GENAI Project Exhibition **"From Queries to Creativity - MongoDB & GenAI"** for the **EduGenie** Project

CERTIFICATIONS

- Juniper Networks Certified Associate, Cloud (JNCIA-Cloud).