Pavan D

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SUMMARY

Computer Science Data Science student with strong expertise in Machine Learning, Data Analytics, and AI-driven solutions. Skilled in Python, SQL, feature engineering, and data visualization. Hands-on experience in building predictive models, AI-powered applications, and dashboards using modern tools and frameworks.

EDUCATION

Bangalore Institute of Technology - VV Puram, Bangalore, India   *CGPA: 8.44/10*

Computer Science and Engineering (Data Science)   December, 2022 – Present

TECHNICAL SKILLS

- **Programming Language**: Python, SQL (MySQL)
- **Data Science:** Data Preprocessing, EDA, Feature Engineering, ETL
- **Machine Learning and Deep Learning**: Supervised & Unsupervised learning, Reinforcement Learning, Generative AI, LLMs
- **Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, LangChain
- **Visualization Tools**: MS Excel, ETL, Tableau, PowerBI
- **Tools**: VS Code, Jupyter Notebook, MiniConda, Figma

PROJECTS

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

   Developing a multimodal AI system for chest X-ray diagnosis using CNN, RNN, and Generative AI. Integrating disease prediction, report generation, and visual explainability with Grad-CAM for improved diagnostic accuracy.

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

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

   Built a responsive UI using React.js and Tailwind CSS. Integrated Google Gemini API, LangChain, and FastAPI for intelligent academic insights. Implemented OCR with PyMuPDF, reducing manual data entry by 60%.

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

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

   Built a machine learning-based diabetes risk prediction system using Random Forest and KNN, achieving 84% accuracy and F1-score of 0.80. Applied feature engineering, data preprocessing, and class imbalance handling. Implemented with Python, Scikit-learn, and Pandas for early healthcare diagnostics.

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

   ETL | BigQuery | Microsoft Power BI

   Managed design and data storytelling to build an interactive Power BI dashboard analyzing opinion gaps between students, faculty, and clubs. Contributed to data collection, ETL processing using BigQuery, and advanced visualization for actionable insights. Secured 2nd place among 14 teams in a technical competition.

ACHIEVEMENTS

- 2nd Place in IoT Project Exhibition
- Secured 2nd place among 15 teams in the "Turn Data into Stories" exhibition (Dec 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).