AVIRAL DUBEY

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PROFESSIONAL SUMMARY

Information Technology graduate with a strong interest in building smart, reliable, and user-focused software solutions. Skilled in Python, problem-solving, and modern development tools, with hands-on experience in projects involving machine learning and automation. Always eager to learn new technologies, take on challenges, and contribute to impactful software development teams.

EDUCATION

MANIPAL UNIVERSITY JAIPUR | Oct 2021- Jul 2025
Bachelor of Technology (B.Tech), Information Technology

- **Final Semester GPA: 10.0/10.0**
- **CGPA: 7.09/10**
- **Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Machine Learning, Computer Vision, Web Development

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WORK EXPERIENCE

YBI Foundation | **Data Science Intern** | Jun 2024 – Jul 2024
Remote

- Engineered a fraud detection model using Python (Scikit-learn, Pandas) that identified 15% more anomalous transactions than the previous baseline system when tested against a historical dataset of over 100,000 entries.
- Built and launched an interactive Power BI dashboard that provided real-time visualization of key fraud metrics, enabling risk analysts to identify and investigate high-risk patterns 40% faster than with previous static reporting methods.
- Designed geospatial and time-series visualizations to communicate complex data trends, providing actionable insights for strategic decision-making.

SmartInternz (in partnership with Salesforce) | **Summer Intern** | Jul 2024 – Sep 2024
Remote

- Analysed complex business requirements to design and implement data-driven automation solutions within a large-scale enterprise CRM platform.
- Developed custom tools that improved data accessibility and streamlined workflows, reducing manual data handling for internal teams.
- Utilized API integrations and system development tools to support data flow and debugging across integrated business systems.

PROJECTS

Attrition Rate Prediction in Telecommunication

- Designed and implemented a suite of machine learning and deep learning models (Random Forest, SVM, Gradient Boosting, CNN, RNN) to predict customer churn, achieving 98% accuracy on historical data.
- This predictive model successfully identified the top five drivers of customer attrition, providing actionable insights for targeted retention campaigns projected to reduce churn by up to 10%.

AI Chatbot-Based Medicine Recommendation System

- Architected and developed a dual-mode AI medical recommendation chatbot to strategically balance real-time data access with user privacy and offline accessibility.
- **Online Mode:** Leveraged the Google Gemini API for powerful, cloud-based NLP, providing users with the most up-to-date medical information and exercise suggestions.
- **Offline Mode:** Implemented a quantized LLAMA 2-7b model for secure, on-device inference, guaranteeing core functionality without an internet connection and ensuring patient data confidentiality by processing all information locally.

TECHNICAL SKILLS

- **Languages:** Python, SQL, C++, C, Java Script,
- **Frameworks & Libraries:** Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch, Matplotlib, Seaborn, Front-end
- **Databases & Platforms:** MySQL, Power BI
- **Tools & Technologies:** Git, VS Code, Jupyter Notebook,

ACHIEVEMENTS

- **Presented Research Paper:** "Attrition Rate Forecasting in Telecommunication Industry," proposing a novel ensemble method that improved predictive accuracy over existing industry benchmarks.