Kartikesh Chatti

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EDUCATION

State University of New York at Buffalo,, Masters in Engineering Science Data Science	Jan 2024 – May 2025
Vignans Institute of Information Technology, Bachelors of Technology in Computer Science and Engineering.	Jul 2019 – May 2023

PROFESSIONAL EXPERIENCE

Data Analyst, M3 Solutions Private Limited — May 2023 – Dec 2023
- Led end-to-end development of robust data pipelines using advanced SQL queries to automate reporting processes, improving data accessibility and decision-making.
- Delivered executive-level dashboards in Power BI/Tableau that monitored KPIs such as recruitment funnel performance, client satisfaction trends, and project efficiency.
- Enhanced internal machine learning models for predicting candidate-job fit using insights from Python-based EDA, leading to a 15% boost in recruitment accuracy and reduced time-to-hire.

Data Analyst Intern, M3 Solutions Private Limited — Aug 2022 – Apr 2023
- Collaborated with senior analysts to build SQL-based data pipelines for extracting, cleaning, and transforming data from disparate sources, enabling reliable reporting for IT and staffing projects.
- Assisted in creating interactive dashboards in Power BI and Tableau to visualize metrics such as project delivery timelines and team utilization rates.
- Performed exploratory data analysis (EDA) using Python libraries like pandas and NumPy, contributing to the early stages of candidate profiling models.

PROJECTS

Smart Farming Assistant — Mar 2025 – Mar 2025
Developed an AI-powered web application for **precision farming**, enabling farmers to make data-driven decisions.
Key Achievements:
- **92% accuracy** in **plant disease detection** using **ResNet18**, improving diagnostic efficiency.
- **98% accuracy** in **irrigation prediction**, optimizing water use by **20%**.
- **Crop yield estimation** model ($R^2 = 0.95$) for better resource planning.

Innovations:
- **User-friendly web interface** for real-time AI-driven farming insights.
- **Synthetic data generation** to overcome dataset limitations.
- **Scalable and cost-effective**, making AI accessible to small-scale farmers.

Detox Dial, Hackathon: AI For Good. — Feb 2025 – Feb 2025
- AI-powered digital wellness app to combat social media addiction through personalized AI interventions.
- Created a user-centric **UI/UX** with adaptive AI responses based on Briggs Personality Test.
- Utilized **data analytics** and **machine learning** to analyze user behavior and provide tailored detox recommendations, enhancing user engagement.
- **Successfully pitched the project,** showcasing its impact on focus retention and digital habit transformation.

Football Database Management System — Sep 2024 – Dec 2024
- Developed a **PostgreSQL** relational database to manage football data efficiently, replacing flat-file storage.
- Designed normalized schemas for players, teams, matches, and sales to ensure **98%** data integrity and scalability.
- Implemented complex SQL queries for performance analysis, injury tracking, and merchandise sales insights.
- Optimized **SQL queries,** reducing query execution time by **30%.**
- Enabled multi-user access with role-based permissions for coaches, analysts, and sales teams.

SKILLS

- **Programming Languages:** Python, C, C++, R, Data Structures & Algorithms(python), HTML, CSS.
- **Databases:** MySQL, PostgreSQL, SQLite.
- **Frameworks/Libraries:** Machine Learning, NLP, UI/UX Design, NumPy, Pandas, Scikit-learn.
- **Tools/Methodology:** VSCode, Jupyter notebook, PowerBI, Tableau, Google Colab, Microsoft Office, Excel, Git, MATLAB.

CERTIFICATIONS

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- AI for Good Challenge – University at Buffalo
- Machine Learning Foundations – Kaggle
- Python Core certification – Solo learn.
- PowerBI ultimate Orientation – Udemy
- Data Science Foundations – Great learning
- Data Science in Our World – IBM Skill Build