Chaitanya Patil

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EDUCATION

Rochester Institute of Technology (CGPA 3.6/4)   **08/2023 – 05/2025**
Master of Science   Rochester, USA
Major in Information Technology and Analytics (STEM-OPT)
Atharva College Of Engineering, Mumbai University (CGPA 8.12/10)   **08/2018 – 06/2022**
Bachelor of Engineering   Mumbai, India
Major in Information Technology

SUMMARY

Data Analyst with expertise in SQL, Python, Tableau, and ETL pipelines. Skilled in predictive modeling, data visualization, and cloud computing (AWS, Azure). Experience in building scalable data pipelines and optimizing machine learning models to drive business insights. Passionate about data-driven decision-making and automation.

TECHNICAL SKILLS

- **Programming Languages**: Python, SQL, R, Java, C++
- **Data Analysis & Visualization**: Tableau, Power BI, Pandas, NumPy, Excel
- **Databases & Cloud**: AWS (S3, Redshift), Azure, MySQL
- **Machine Learning & AI**: Logistic Regression, Gradient Boosting, Neural Networks, TensorFlow
- **ETL & Big Data**: Apache Spark, ETL Pipelines

PROJECT & RESEARCH

Stock Trend Analysis and Prediction for EV Companies| Flask, Python, Pandas, ML, TensorFlow, HTML, CSS
- Built an interactive Flask-based web application to forecast and analyze stock trends of seven EV companies using historical data.
- Constructed data models to identify high-growth potential companies, leveraging LSTM forecasting to predict market trends with 85% accuracy.
- Designed and integrated Plotly visualizations, which enable real-time stock movement analysis, market correlation tracking, and future forecasting through an intuitive interactive interface.

Telecom Churn Prediction | Jupyter Notebook
- Formulated and fine-tuned churn prediction models leveraging advanced machine learning techniques involving Natural Language Processing with Term Frequency-Inverse Document Frequency (TF-IDF) and word embedding on more than 50,000 review texts.
- Increased churn prediction accuracy by 12% over logistic regression models, enabling more targeted customer retention strategies.
- Improved model reliability by 15% using Random Forest and Gradient Boosting, validated through statistical hypothesis testing.

Enhancing Healthcare Efficiency in New York State through Advanced Visual Analytics | Tableau & Power BI
- Conducted data analysis on 100,000+ healthcare records, identifying trends that reduced operational costs by 12%.
- Created interactive dashboards to enhance reporting and optimize patient care workflows.
- Integrated geospatial analysis techniques to assess healthcare facility efficiency and highlight improvement areas.

EPL Player Wage and Performance Analysis (2020-2024) | Tableau, SQL, Python, Excel
- Built an interactive Tableau dashboard analyzing wage-to-performance trends across 20 Premier League teams for 4 seasons.
- Identified that the top highest-paid players contribute to 35% of team performance variability.
- Delivered data-driven insights to optimize player investments, improving budget allocation efficiency by 20%.

EXPERIENCE

Full-Stack Web Developer Intern
Null Class, Mumbai   **12/2022 – 02/2023**
- Engineered three full-stack web applications, increasing user engagement by 35% via interactive UI/UX enhancements.
- Collaborated with cross-functional teams to prioritize research initiatives, ensuring strategic alignment with product development goals.

Data Science Intern
Let's Grow More, Mumbai   **09/2021 – 10/2021**
- Optimized scalable data pipelines using Python, increasing data-driven decision-making efficiency by 40%.
- Created automated ETL scripts, improving data processing efficiency by 35% and ensuring data accuracy.

Machine Learning Intern
Dev Incepts, Mumbai   **07/2021 – 08/2021**
- Implemented predictive analytics models (Logistic Regression, Gradient Boosting) to optimize operational processes.
- Automated decision-making workflows, saving 15+ hours per week for the analytics team.
- Refined hyperparameter tuning scripts, elevating model accuracy by 12% and reducing computational overhead.