

Chaitanya Patil

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WORK EXPERIENCE

Machine Learning Analyst

Dev Incepts

July 2022 – July 2023

- Reduced system downtime by 18% by building predictive models that detected issues early and prevented disruptions.
- Automated reporting processes using SQL and Python, improving compliance accuracy by 40%, enabling data validation and reconciliation across transactional sources, and reducing manual workload by 15+ hours weekly.
- Built executive-facing Tableau dashboards powered by real-time SQL pipelines, enabling 30% faster decision-making across key KPIs.
- Partnered with Agile squads to deliver sprint-based data solutions, using SQL joins, CTEs, and triggers to support compliance reporting and operational performance.

Data Analyst Intern

Let's Grow More

December 2021 – June 2022

- Improved data reliability by 40% and cut manual preparation by 35% by engineering automated SQL and Excel pipelines to collect, clean, and integrate multi-source datasets.
- Designed stakeholder-focused dashboards in Tableau and Power BI to visualize customer and product data, delivering clear, actionable insights that guided strategic product decisions and enhanced customer experience.
- Implemented anomaly detection scripts in Python to proactively flag and correct data issues before release, reducing post-launch errors by 20% and improving overall data quality.

EDUCATION

Rochester Institute of Technology

Rochester, NY

Master of Science in Information Technology and Analytics (Cumulative GPA – 3.60/4.0)

August 2023 – May 2025

Mumbai University

Mumbai, India

Bachelor of Engineering in Information Technology (Cumulative GPA – 3.45/4.0)

August 2018 – May 2022

TECHNICAL SKILLS

- Programming & Databases:** Python (Pandas, NumPy), R, UNIX, Bash, Redshift, MySQL, Snowflake, PostgreSQL, XML
- Frameworks & Libraries:** TensorFlow, Scikit-learn, NLP, Anomaly Detection, Feature Engineering, Classification, Regression, Clustering, Time Series Modeling, Predictive Modeling, Model Deployment, Streamlit, Plotly, Matplotlib.
- Technologies & Tools:** Tableau, Power BI, Looker, Excel (Advanced), MIRO, Smartsheet, SharePoint, AWS (S3, Redshift), Azure SQL, GCP BigQuery, GitHub, JIRA, ArcGIS, Salesforce, Data Modeling, Data Wrangling, ETL Development, Automation, Data Governance, REST API Development, FastAPI, API Integration, Financial Forecasting, Risk Analysis.

PROJECTS

EPL Squad Budget Intelligence Platform

[LINK](#)

- Analyzed 4 seasons of financial and performance data from 20 football clubs, evaluating players as economic assets to measure wage efficiency and ROI.
- Built custom KPIs (WES, WPM, ECO) in Python and SQL to clean and standardize inconsistent data from multiple sources, revealing \$10M+ in wage inefficiencies.
- Designed interactive Tableau dashboards with drill-down layers, giving executives clear performance and cost insights for targeted budget adjustments.

Netflix Revenue Analytics Dashboard: Market Trends & KPI Insights

[LINK](#)

- Developed a Streamlit dashboard to visualize 20+ quarters of revenue, subscriber growth, and content spend trends, uncovering key revenue drivers.
- Improved forecast accuracy by 25% by identifying ARPU, regional mix, and content spend as key revenue drivers.
- Delivered KPI cards, interactive charts, and filters, reducing stakeholder analysis time by 40% and streamlining executive reporting.

SentimentX – AI-Powered Stock Screener

[LINK](#)

- Built SentimentX, a real-time S&P 500 stock screener integrating technical indicators (50/200 MA, RSI, price % change) with VADER NLP sentiment analysis, providing data-driven buy/hold/sell recommendations.
- Engineered a Retrieval-Augmented Generation (RAG) pipeline using FAISS vector search, OpenAI embeddings, and LLM-based Q&A, enabling users to query company-specific insights from stock data and financial news.
- Developed scalable Python pipelines & interactive dashboards with pandas, yfinance, and API integrations to process 500+ tickers in real time, delivering visualizations and JSON-based outputs for trend analysis.

LEADERSHIP AND AWARDS

- Promoted to Student Manager at RIT Dining Services, leading 20+ team members, overseeing scheduling and onboarding, and optimizing workflows by 40% to improve operational efficiency.
- Awarded Outstanding Student Employee for leadership, reliability, and top 5% performance among 100+ peers