

# Chaitanya Patil

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## EDUCATION

**Rochester Institute of Technology (GPA 3.6/4).**

*Master of Science in Information Technology and Analytics.*

**Mumbai University (GPA 3.45/4).**

*Bachelor of Engineering in Information Technology.*

**August 2023 – May 2025**

Rochester, USA

**August 2018 – June 2022**

Mumbai, India

## WORK EXPERIENCE

### Data Analyst Intern

Let's Grow More | Mumbai | September 2021 – October 2021

- Designed and optimized full-stack data pipelines using Python and Pandas, improving internal data processing speed and reliability by **40%** across varied analytics workflows.
- Automated complex ETL routines across Excel and SQL, reducing manual preparation time by **35%** while boosting data accuracy.
- Delivered **10+** Matplotlib and Seaborn visualizations that shaped **5+** strategic decisions across product planning efforts.

### ML Analyst Intern

Dev Incepts | Mumbai | July 2021 – September 2021

- Architected predictive maintenance pipelines leveraging Random Forest and Gradient Boosting, enhancing fault forecast accuracy by **18%** and reducing downtime risk across weekly ops cycles.
- Automated data cleaning, training, and testing steps, saving the analytics team **15+ hours** of manual work each week.
- Enhanced model performance via hyperparameter tuning with GridSearchCV, increasing precision by **12%**.

## TECHNICAL SKILLS

- Programming & Querying:** Python (Pandas, NumPy, PySpark), SQL (Redshift, MySQL, Snowflake), R, Excel.
- Analytics & Visualization:** Tableau, Power BI, Looker, Streamlit, Plotly, Seaborn, Google Data Studio.
- Data Engineering & ETL:** Apache Airflow, Pandas ETL, Data Validation Scripts, Anomaly Detection.
- Cloud & DevOps:** AWS (S3, Redshift), Azure, GCP, GitHub Actions, CI/CD, Docker.
- ML & Business Intelligence:** Scikit-learn, XGBoost, Prophet, LLaMA 2, LangChain, Financial Modeling, KPI Dashboards.

## PROJECTS

**Sports BI Dashboard – EPL Clubs** | *Tableau, Python, Pandas, SQL, HTML/CSS, Google Colab*

- Spearheaded a comprehensive **4-season** financial analysis across **20 football** clubs, treating players as economic assets to evaluate wage efficiency and return on investment (ROI).
- Architected custom performance and financial KPIs (WES, WPM, ECO) using Python and SQL, standardizing complex, inconsistent data from diverse league sources.
- Unveiled **\$10M+** in wage inefficiencies via dynamic Tableau dashboards, steering data-driven budget realignment.
- Delivered dashboards in a story-mode format with interactive drill-down layers for club executives, mirroring business intelligence solutions in wealth management and cost optimization use cases.

**LLM Powered Data Risk Auditor** | *LLaMA 2, Streamlit, Python, HTML/CSS, JS*

- Built a GenAI tool with LLaMA 2 to flag **50+** data risks across **1GB** datasets.
- Automated profiling using pandas and correlation metrics to detect anomalies, skew, and critical issues.
- Designed a smooth, animated UI in HTML/CSS/JS to boost clarity and user engagement by **40%**.

**E-commerce Analytics Dashboard – OmniCart** | *Python, Streamlit, Scikit-learn, Prophet, Git, Tableau*

- Built a dashboard analyzing **3 M+** orders, clustering **200K** users via RFM and KMeans to uncover behavioral patterns.
- Simulated A/B tests and cohort analysis reveal **2.3×** higher reorders in key segments for targeting and churn prevention.
- Forecasted **14-day** product demand using Prophet to improve inventory accuracy and pricing strategy across top-performing aisles.

**Stock Trend Analysis and Prediction for EV Companies** | *Flask, Python, Pandas, ML, TensorFlow, HTML, CSS*

- Engineered custom LSTM models in TensorFlow to forecast stock trends with **85%** accuracy, improving prediction precision by **12%** and enabling weekly retraining for real-time adaptability.
- Developed a Flask-based web app to enable real-time stock exploration across **7** electric vehicle companies.
- Created interactive dashboards with Plotly to visualize stock trends, correlations, and anomalies in a responsive web interface.

**Enhancing Healthcare Efficiency in New York State through Advanced Visual Analytics** | *Looker Studios, Power BI*

- Led exploratory analysis of **100,000+** patient records to identify operational inefficiencies in statewide healthcare systems.
- Automated data validation workflows, improving data integrity and delivering **12%** cost savings via streamlined process flows.
- Delivered executive-facing dashboards and insights that directly improved patient care outcomes and guided director-level decisions.