Chaitanya Patil

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SUMMARY

Data Analyst with strong skills in SQL, Python, and cloud-based analytics, experienced in building end-to-end data pipelines, designing dashboards, and generating actionable insights from complex datasets. Familiar with working in cloud environments and eager to deepen expertise in AWS technologies. Proven ability to collaborate with cross-functional teams to improve data workflows.

WORK EXPERIENCE

Machine Learning Analyst   **July 2022 – July 2023**
Dev Incepts | Mumbai

- Developed and deployed predictive maintenance models using **Random Forest** and **Gradient Boosting**, improving fault prediction accuracy by **18%** and reducing operational downtime in weekly cycles.
- Designed and automated end-to-end ML workflows including **data preprocessing**, model training, and evaluation, saving **15+** analyst hours weekly.
- Collaborated cross-functionally with product managers to integrate model outputs into dashboards and decision pipelines, aligning data science efforts with product **KPI**s.
- Tuned model hyperparameters using **GridSearchCV**, achieving a **12%** gain in predictive precision and improving model reliability for real-time applications.

Data Analyst Intern   **December 2021 – June 2022**
Let's Grow More | Mumbai

- 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.

TECHNICAL SKILLS

- **Programming & Querying:** Python (Pandas, NumPy, PySpark), SQL (Redshift, MySQL, Snowflake), R, Excel, Big Query.
- **Analytics & Visualization:** Tableau, Power BI, Looker, Streamlit, Plotly, Seaborn, Google Data Studio, Matplotlib**.**
- **Data Engineering & ETL:** Apache Airflow, Pandas ETL, Data Validation Scripts, Anomaly Detection.
- **Cloud & DevOps:** AWS (S3, Redshift), Azure, GCP, GitHub Actions, CI/CD, Docker.

PROJECTS

EPL Squad Budget Intelligence Platform | *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 **$ 10 M+** in wage inefficiencies via **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.

Netflix Revenue Analytics Dashboard: Market Trends & KPI Insights | *Python, Streamlit Dashboards, Plotly Visualizations*

- Engineered a **Streamlit** dashboard using **Python, Pandas,** and **Plotly** to analyze **20+** quarters of Netflix revenue data, improving financial visibility across **4** global regions.
- Identified **3+** key revenue drivers by analyzing subscriber counts, **ARPU**, and content spend, contributing to a **25%** accuracy boost in quarterly forecasting.
- Delivered a fully interactive BI dashboard with **KPI** cards, trend visualizations, and filters that mimic enterprise-level tools, reducing stakeholder analysis time 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.
- Revealed high-performing segments with a **2.3** times reorder rates through A/B and cohort analysis
- Forecasted **14-day** product demand using **Prophet** to improve inventory accuracy and pricing.

EDUCATION

Rochester Institute of Technology (GPA 3.6/4).   **August 2023 – May 2025**
Master of Science in Information Technology and Analytics.   Rochester, USA
Mumbai University (GPA 3.45/4).   **August 2018 – June 2022**
Bachelor of Engineering in *Information Technology.*   Mumbai, India