# Chaitanya Patil

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## EDUCATION

**Rochester Institute of Technology (CGPA 3.6/4)** **08/2023 – 05/2025**
Currently studying a master's program in Information Technology and Analytics Rochester, USA

**Atharva College Of Engineering, Mumbai University (CGPA 8.12/10)** **08/2018 – 06/2022**
Achieved a Bachelor of Engineering in Information Technology Mumbai, India

## TECHNICAL SKILLS

- **Programming Languages:** Java, C++, Python (for data manipulation and analysis), flask.
- **Data Analysis Tools:** SQL, Pandas, Tableau, Power BI.
- **Machine Learning Techniques:** Logistic Regression, Random Forest, Gradient Boosting, Neural Networks.
- **Web Development Technologies:** HTML, CSS, JavaScript, Django.
- **Cloud Platforms:** AWS (S3), Azure, Google Cloud Platform, Big Query.
- **Data Engineering Tools:** Apache Hadoop, Snowflake

## EXPERIENCE

**Full-Stack Web Developer Intern**
**Null Class, Mumbai** **12/2022 – 02/2023**

- Built and launched three innovative web applications, significantly boosting user engagement by enhancing navigation and incorporating interactive data visualizations that made easier for users to explore and understand the data.
- Spearheaded the development and execution of strategic action plans that enhanced team collaboration and streamlined workflow processes, driving a 30% boost in project integration efficiency.

**Data Science Intern**
**Let's Grow More, Mumbai** **09/2021 – 10/2021**

- Architected and implemented scalable data pipelines using Python and Apache Spark, which propelled the organization's capacity for real-time data processing and analytics, boosting data-driven strategic decision-making by 40%.
- Performed comprehensive data analysis and developed predictive models that identified key business trends, directly informing and enhancing executive decision-making processes.

**Machine Learning Intern**
**Dev Incepts, Mumbai** **07/2021 – 08/2021**

- Customized machine learning implementations to drive autonomous decision-making and improve working efficiency saved more than 15 working hours of work for the analytical team every week.
- Constructed sophisticated machine learning models by combining logistic regression with ensemble classifiers contributed to substantially higher model performance measures within only two working weeks of implementation.

## ACADEMIC PROJECTS

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

- Developed a dynamic web application using Flask to analyze and predict stock performance of 7+ EV companies, processing over 5 years of historical stock data.
- Built and deployed predictive models (LSTM), forecasting stock prices for the next 6 months, achieving a prediction accuracy of up to 85% for major EV stocks.
- Implemented interactive data visualizations with Plotly, allowing users to explore real-time stock trends, market correlations, and predictions through an intuitive, responsive interface.

**Telecom Churn Prediction | Google Colab, Python**

- Designed and tuned churn prediction models based on cutting-edge machine learning methods involving Natural Language Processing with Term Frequency-Inverse Document Frequency (TF-IDF) and word embedding on more than 50,000 review texts.
- Achieved a 12% enhancement in churn prediction accuracy over traditional logistic regression methods, significantly driving more targeted and impactful marketing strategies.
- Increased model reliability by 15% through strategic deployment of Random Forest and Gradient Boosting methods backed by thorough statistical analysis and hypothesis testing.

**Enhancing Healthcare Efficiency in New York State through Advanced Visual Analytics | Tableau & Looker**

- Directed a large-scale exploratory data analysis project of more than 100,000 patient records in the healthcare industry to determine material operations inefficiencies, leveraging interactive visual data platforms like Tableau and Power BI.
- Sanitized processes to mechanize data validation processes to yield a cost savings of 12% through enhanced data correctness and maximized process flows.