

# Ayush Kolte

I am a dedicated Data Science student passionate about leveraging programming and analytical skills to drive impactful solutions. With hands-on experience in projects ranging from predictive modeling to market analysis, I excel in utilizing Python, machine learning, and data visualization tools to enhance business outcomes.

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📍 Mumbai, India

## EDUCATION

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### Vidyalankar School Of Information Technology

BSc . Data Science - 8.90 CGPA

August 2022 - March 2025

### Abhinav Vidyalay

HSC - 52.5%

July 2020 - May 2022

### St Theresa Convent High School

SSC - 72.6%

2010 - 2020

## PROJECTS

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### Delhi Metro Operations Optimization Using Python

- The goal of this project is to optimize metro rail operations by analyzing factors such as passenger demand, train scheduling, peak-hour congestion, and route efficiency. By leveraging Python for data analysis and machine learning, the project aims to enhance metro service efficiency, reduce waiting times, and improve passenger experience.

### Next Word Prediction Model

- Developed an NLP-based Next Word Prediction model using deep learning techniques to enhance text autocompletion and predictive typing. Implemented data preprocessing (tokenization, stopword removal, and text normalization) and trained the model using LSTM/GRU networks. Utilized Python, TensorFlow/PyTorch, and NLP libraries (NLTK, SpaCy) for training and evaluation. Integrated the model into a simple Flask/Django-based application for real-time predictions.

### Electric Vehicles Market Size Analysis(TESLA)

- Conducted an in-depth market analysis of the global electric vehicle (EV) industry, focusing on Tesla's market share, growth trends, and competitive positioning. Analyzed key metrics such as sales growth, revenue trends, and industry forecasts using data-driven approaches. Assessed the impact of government policies, technological advancements, and competition on Tesla's market performance.

## SKILLS

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- **Programming:** Python,SQL
- **Data Analysis & Visualization:** EDA, Data Cleaning, Matplotlib, Seaborn, Tableau, Power BI
- **Machine Learning:** Regression, Classification, Clustering, Time Series Forecasting
- **Deep Learning & NLP:** TensorFlow, PyTorch, Text Processing, Sentiment Analysis
- **Statistics & Mathematics:** Probability, Hypothesis Testing, A/B Testing, Inferential Statistics
- **Big Data & Cloud:** Hadoop, Spark, AWS, GCP
- **Business & Problem-Solving:** Data-Driven Decision Making, KPI Tracking, Business Intelligence

## CERTIFICATE

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**TATA: Data Visualisation: Empowering Business with Effective Insights Program**

**Microsoft Office Specialist : Excel 2016**

**Python Certification - Maharashtra Government**