

# Mohammad Zaid Ansari

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## Brief Summary

As a dedicated and goal-oriented programmer, I possess strong expertise in Python, Machine Learning, Deep Learning, Data Analytics and MySQL, with a focus to keep developing my skills. My notable projects include a CO2 emission prediction model utilizing LSTM and RNN techniques, an advanced speech and text processing "Transcriber" project, and a pollution prediction initiative presented at IEEE. I am passionate about big-data, cloud and aspire to leverage my skills to drive innovation in any project that I work on. What sets me apart is merging technical know-how with effective project management and collaboration, and harnessing the collective synergy of teams contributing to achieving significant outcomes.

## EDUCATION

Saint Paul High School, Mumbai, Maharashtra. <i>Intermediate in Science Stream</i> 2018	Mumbai University, Mumbai, Maharashtra. <i>Intermediate in Science Stream</i> 2018 - 2020	Don Bosco Institute of Technology, Mumbai, Maharashtra. <i>Bachelor of Technology (B.Tech)</i> , 2020 - 2024
<ul style="list-style-type: none"><li>Percentage: 81%</li></ul>	<ul style="list-style-type: none"><li>Percentage: 76%</li></ul>	<ul style="list-style-type: none"><li>Cumulative GPA: 7.9/10.0</li></ul>

## PROJECTS

### Transcriber - Speech and Text Processing Project

#### Key Skills: Python, API Integration

- Led the "Transcriber" project, overseeing a team of developers and fostering collaboration for successful delivery.
- Utilized Python for speech and text processing, showcasing strong programming skills and innovation.
- Integrated Assembly AI and other libraries to enhance project functionalities, including speech synthesis and PDF-to-speech conversion.
- Implemented features like text-to-speech, speech-to-text, and video subtitle generation, highlighting project versatility.
- Demonstrated ability to address diverse challenges in speech and text processing, ensuring comprehensive project outcomes.

### CO2 Emission Prediction

#### Key Skills: Python, Machine Learning, Deep Learning, Data Analysis

- Collaborated with a team of three on a CO2 emission prediction project, taking the lead in data cleaning and prediction.
- Conducted comprehensive data analysis and employed data visualization to enhance prediction accuracy.
- Implemented four models—LSTM, RNN, Linear Regression, and Polynomial Regression—to forecast CO2 emissions.
- Evaluated model performance using appropriate metrics and fine-tuned the models to achieve optimal results.

### Admission Portal

#### Key Skills: HTML, CSS, JavaScript, MySQL, PHP

- Developed an admission portal using HTML, CSS, JavaScript, PHP, and MySQL, creating a comprehensive solution.
- Designed an intuitive and visually appealing frontend with HTML and CSS, focusing on user experience.
- Enhanced interactivity and implemented client-side form validation using JavaScript for accurate data input.
- Managed server-side logic with PHP for data processing, database connectivity, and user authentication.
- Utilized MySQL for efficient data storage and retrieval, optimizing portal performance.

## Pollution Prediction and Mitigation in Mumbai

### Key Skills: Python, Deep Learning, GIS Mapping

- Led a team in the "Pollution Prediction and Mitigation in Mumbai" project, analyzing air pollution using deep learning models with meteorological data from 2000-2023.
- Developed predictive models, including Bidirectional Long Short-Term Memory (BiLSTM), achieving superior accuracy in forecasting pollutant levels.
- Findings indicated potential future pollution hotspots, offering critical insights for urban planners on effective pollution control measures.
- Integrated GIS mapping for spatial analysis, enhancing the understanding of air quality trends and their public health implications.
- Presented the research paper at IEEE and received a certificate for the project.

[https://drive.google.com/file/d/1\\_em4xwp-DNoi-VG4SvPhiFZ1xqrSxahI/view?usp=sharing](https://drive.google.com/file/d/1_em4xwp-DNoi-VG4SvPhiFZ1xqrSxahI/view?usp=sharing)

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## ADDITIONAL

**Technical Skills:** Python, Data Analytics, Power BI, Machine Learning, Deep Learning, SQL, MongoDB.

**Languages:** Fluent in Hindi and English

**Certifications & Training:**

- Python Certification from Kaggle - <https://www.kaggle.com/learn/certification/mohammadzaidansari/python>
- Data Analytics Bootcamp - [https://drive.google.com/file/d/1yW-pYVFxKAq2o2KNQh\\_EStTvDn7ilxnr/view](https://drive.google.com/file/d/1yW-pYVFxKAq2o2KNQh_EStTvDn7ilxnr/view)
- Data Science Foundations - <https://drive.google.com/file/d/1tWUfcpG4GLfLXuSed12--3JiTouZ1VIO/view>

**Publications:** Assessment and Prediction of Urban Pollutants and its Influence on Human Health using Deep Learning Algorithms.

**Interests:** Cricket, Swimming, Reading.