

IMRAN NAZIR

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Education

Degree	Institution	CGPA/%	Year
Secondary and Senior Secondary Education	JNV Mungeshpur, Delhi	X: 90.8% XII: 86%	2013-2020
B.Tech. (Electronics and Communication Engineering)	DSEU GB Pant Okhla Campus	7.32 CGPA	2021-2025
Diploma in Data Science	IIT Madras Online Degree Program	7.01 CGPA	2021-2025

Experience

Subject Matter Expert (SME), PhysicsWallah (PW), October 2023 - Present

- Cleared physics doubts for JEE and NEET students, ensuring clarity and comprehensive understanding.
- Collaborated with the doubt-solving team to enhance response quality and improve the overall student satisfaction rate.
- Focused on creating a seamless doubt-solving experience by addressing diverse student queries effectively.
- Solved over 10,000 doubts with a 95%+ student satisfaction rate.

Content Writing Intern, Suvidha Foundation (Suvidha Mahila Mandal), July 2023 - August 2023

- Completed a 30-day internship focused on content writing, contributing to the foundation's mission of creating a positive impact.
- Collaborated with a team of professionals to develop high-quality written materials for various initiatives.
- Gained hands-on experience in content development while supporting the foundation's outreach and awareness efforts.

Projects

Design and Analysis of a 2:1 Switched Capacitor DC-DC Converter for Improved Performance [Link](#)

- **Objective:** Optimize a 2:1 switched capacitor DC-DC converter's performance.
- **Tools Used:** LTSPICE, C++, Python (numpy, pandas, matplotlib, seaborn, scikit-learn, scipy).
- **Approach:** Simulated the circuit, performed transient analysis, and optimized parameters using Gradient Boosting.
- **Results:** Achieved optimal parameters, reducing ripple and improving transient response.

Crime Classification Web App [Link](#)

- **Objective:** Developed a machine learning model to classify crime categories using LA Police data and deployed it via a web application.
- **Tools Used:** Python, LightGBM, Flask, scikit-learn, pickle.
- **Results:** The web app provides accurate predictions, improving response times for law enforcement with an accuracy rate of 87%.

Google Play Store Reviews Analytics Dashboard [Link](#)

- **Objective:** Built an interactive web dashboard to analyze Google Play Store reviews.
- **Tools Used:** Python, Plotly, Pandas, NumPy, NLTK, HTML, CSS.
- **Results:** Provided key insights into app ratings, user sentiment, and category trends, helping developers improve their applications.

A-Z Household Services Web App [Link](#)

- **Objective:** Designed and developed a web application to connect customers with service professionals for various household needs.
- **Tools Used:** Flask, SQLite, Bootstrap, Python.
- **Results:** Streamlined household service booking with features for search, registration, and user management, improving convenience and efficiency.

Sales Dashboard [Link](#)

- **Objective:** Developed an interactive sales dashboard to analyze and visualize sales performance.
- **Tools Used:** Power BI, Python (Pandas, NumPy).
- **Results:** Provided key insights into sales trends, improving data-driven decision-making.

Skills

- **Data Analysis:** Data Cleaning, Data Manipulation, Statistical Analysis, Data Visualization.
- **Machine Learning:** Predictive Modeling, Regression Algorithms, Classification Algorithms, Feature Engineering, Model Optimization.
- **Natural Language Processing (NLP):** Sentiment Analysis (NLTK), Text Preprocessing.
- **Data Engineering:** SQL Queries, ETL Pipelines, Data Wrangling.
- **Programming Languages:** Python, SQL.
- **Tools Frameworks:** Plotly, Jupyter Notebook, Pandas, Matplotlib, Seaborn, Power BI, Excel.

Certifications

- **Foundation Level in Data Science and Programming** - IIT Madras BS Degree Program - April 2022 [Link](#)
- **Machine Learning using NumPy** - IIT Madras BS Degree Program - September 2024 [Link](#)
- **SQL (Intermediate)** - Hackerrank - October 2024 [Link](#)

Extracurricular Activities

- Participated in the Scouts and Guides program (2015-2019), achieving various scouting milestones.
- Served as an NCC cadet for 2 years (2016-2018), developing leadership, discipline, and teamwork skills.
- Secured 1st place in a Virtual Trading Competition organized by PALAKKAD, demonstrating a keen understanding of financial markets and investment strategies.