Raziullah Ansari

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B.Tech in Metallurgical and Materials Engineering
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 Github Profile
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EDUCATION

- **National Institute of Technology, Raipur** *2023 – Present*
  B.Tech in Metallurgical and Materials Engineering CGPA: 8.72
- **Oasis Sainik School, Rajasthan** *2022*
  Board of Intermediate Education, Rajasthan Percentage: 92.2%

EXPERIENCE

- **CSIR - National Metallurgical Laboratory (NML)** *May 2025 - Present*
  *ML Intern – HEA Phase & Yield Strength Prediction(**Project Link**)* Jamshedpur,India
  - Developed a Streamlit web app using XGBoost to predict HEA phases with 90%+ accuracy.
  - Built an ElasticNet model to predict yield strength of 120+ superalloys ($R^2 = 0.71$), leveraging explainable AI for key feature insights.
  - **Tech Stack:** Python, scikit-learn, XGBoost, Streamlit, Pandas, NumPy

- **Dr. Karnati Mohan, CSE Department, NIT Raipur** *Jan 2025 - Present*
  *Research Project: Deep Learning Model for Colon Disease Classification (**Project Link**)* Raipur, India
  - Achieved 97% accuracy on 10k+ medical images using MobileNet and data augmentation techniques.
  - Reduced model training time by 25% via Adam optimization and L2 regularization.
  - **Tech Stack:** Python, TensorFlow, Keras, OpenCV, NumPy, Pandas.

PROJECTS

- **Road Accident Analysis Dashboard (Project Link)** *Mar 2025*
  Designed an interactive Power BI dashboard to analyze and visualize accident trends, severity, and geographic hotspots.
  - Analyzed 1,000+ accident records to identify high-risk zones, peak hours, and severity patterns.
  - Built an interactive dashboard with maps, filters, and visuals for cause analysis, time-series trends, and severity distribution.

- **Social Media Trend Analysis Dashboard (Project Link)** *Feb 2025*
  Performed sentiment and hashtag analysis on multi-platform social media data to uncover trends and engagement patterns.
  - Processed and analyzed 732 posts across 3 platforms and 30+ countries using NLP (TextBlob) and EDA.
  - Extracted and visualized 1,200+ hashtags and sentiment trends via an interactive Power BI dashboard with dynamic filters.

- **Customer Support Ticket Analysis (Project Link)** *Jan 2025*
  Conducted data cleaning, sentiment analysis, and visualization to optimize customer service resolution workflows.
  - Analyzed 380+ support tickets to identify common issues, track resolution time (avg. 7.5 hrs), and low-satisfaction areas.
  - Created summary reports and dashboards with actionable recommendations to improve process efficiency and satisfaction.

SKILLS

Programming Languages/Database : Python, C++ , SQL
Data Visualization Tools: Power BI, Tableau, Excel
Machine Learning: Model Development, Feature Engineering,Data Preprocessing
Soft Skills: Communication, Time Management

POSITIONS OF RESPONSIBILITY

- **Mentor - OpenLink Foundation,** Aug 2024 – Present
  Assisting underprivileged students in preparing for JEE, NEET, and other competitive exams.

- **Tech Executive - Innovation Cell,** Jan 2024 – Dec 2024
  Collaborated on website development initiatives and contributed to tech-based project planning and execution

ACHIEVEMENTS & AWARDS

- Foundation for Excellence (FFE) Scholarship Recipient: Awarded merit-based scholarship for academic excellence.
- Selected for SRFP (Summer Research Fellowship Program): Among 500+ applicants selected for competitive fellowship.
- Semi-Finalist, NEST Case Competition: Advanced to semi-finals in national case competition.
- National Inter-NIT Swimming Tournament: Represented NIT Raipur at national-level competition.