# RIYA BHARDWAJ

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## SUMMARY

B.Tech CSE student blending code, creativity, DSA, and data to craft intelligent solutions — from AI-powered apps to real-time analytics — ready to turn complex problems into impactful results.

## EXPERIENCE

### Data Science Intern

**Tata Motors**                                                                                **May 2025 – July 2025,  Jamshedpur, Jharkhand**

· Developed a **U-Net based model** to extract road networks from satellite imagery, achieving **95% IoU** and **94% pixel accuracy** on test data.
· Preprocessed and augmented a dataset of **1,108+ road mask images**, improving model robustness by **18%**.
· Implemented data cleaning, normalization, and loss functions in Python, reducing training time by **20%**.
· Evaluated multiple optimization algorithms, selecting the one that improved inference speed by **15%**.
· Deployed the trained model on Streamlit for real-time road extraction, enabling **instant visual predictions**.

### Data Analyst Intern

**Tata Steel**                                                                                              **May 2025 – May 2025,  Jamshedpur**

· Project name –Data Extraction for FAD and Data Visualization in Tableau.
· Extracted and structure Failure Analysis Data (FAD)  for analytical processing.
· Used Excel and Python for Data Cleaning and preprocessing.
· Built  interactive Tableau dashboards to visualize trends, failure points, and key metrics..

## PROJECT

### AI-powered Image Captioning & Segmentation

github.com/Riya-l209/ImageCaptioning_Segmentation.git · May 2025 – July 2025

· Developed an AI-based application for image captioning and semantic segmentation using **ViT-GPT2**, **Mask R-CNN**, and **PyTorch**.
· Deployed the project as an **interactive Streamlit web app** on **Hugging Face Spaces** for real-time predictions.
· Implemented transformer-based NLP and deep learning computer vision techniques for multi-task image understanding.

### Time Series Stock Price Forecasting

Virtual Internship – Zidio Development (Data Science & Analytics Program) · github.com/Riya-l209/time-series-stock-forecast.git
· May 2025 – July 2025
· Designed predictive models for **AAPL stock prices** using **ARIMA**, **Prophet**, and **LSTM** algorithms.
· Built and deployed an **interactive Streamlit dashboard** for visualization of predictions, historical trends, and model performance comparisons.
· Applied statistical and deep learning methods to enhance forecast accuracy.

## EDUCATION

### Btech | Computer Science Engineering

BIRLA INSTITUTE OF TECHNOLOGY, MESRA · Jharkhand · 2027 · 8.98 / 10.0

## AWARDS & HONORS

### Diploma Completion in Vocal  Classical singing

Prayag Sangeet Samiti, Allahabad · 2018

## SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, OpenCV), Java, C, SQL (Joins, CTEs, Window Functions), HTML, CSS, JavaScript

Artificial Intelligence: Deep Learning (U-Net, CNNs), Computer Vision, Road Extraction, Generative AI, Prompt Engineering, AI for Business &amp; Design, Productivity Tools

Tools &amp; Platforms: Jupyter Notebook, Google Colab, VS Code, Git &amp; GitHub, MySQL, Tableau, Power BI, MS Excel (Pivot Tables, VLOOKUP, Charts)