

# Vishal Mondal

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[linkedin.com/in/vishal-mondal](https://www.linkedin.com/in/vishal-mondal) | [github.com/vishal48-tech](https://github.com/vishal48-tech)

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## Professional Summary

Data Scientist with hands-on experience building predictive models and scalable data pipelines. Skilled in feature engineering, statistical analysis, model validation (cross-validation, train/test split, performance metrics), and optimization. Adept at translating complex data insights into actionable business recommendations. Passionate about cross-functional collaboration to drive product and business impact.

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## Skills

**Programming:** Python, SQL, JavaScript, PHP

**ML & AI:** TensorFlow, PyTorch, Scikit-learn, XGBoost, OpenCV, CNN, YOLO, Model Optimization, Prompt Engineering

**Data Science:** Predictive Modeling, Feature Engineering, EDA, Statistical Analysis, Data Pipelines

**Tools:** Git, VS Code, Jupyter, Google Colab, REST APIs

**Visualization:** Matplotlib, Seaborn

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## Projects

**CryptoVol AI** | [crypto-volatility.onrender.com/](https://crypto-volatility.onrender.com/)

- Did scaling, encoding, feature engineering, data cleaning, data analysis.
- Trained XGBoost and LSTM, evaluated using r2 score and RSME.
- End to end Rest API, server side processing for fast output.

**Brain CT Scan Segmentation** | Github: [github.com/vishal48-tech/brain-ct-scan](https://github.com/vishal48-tech/brain-ct-scan)

- Applied K-Means clustering to segment medical images into 4 distinct groups from unstructured image data.

**OpenCV Projects** | Github: [github.com/vishal48-tech/open-cv-prompt-engineering](https://github.com/vishal48-tech/open-cv-prompt-engineering)

- Blur person only, nose point detection, posture detection.
  - Virtual t-shirt try on in progress.
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## Education

**Skill Course: Data Science with Generative AI**

P.W. Skills — Aug 25 - April 26 estimate

**Diploma in Computer Engineering**

R.C. Technical Institute, Ahmedabad — 2020 - 2023

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## Languages

- English (Professional)
- Hindi (Native)
- Bengali (Bilingual)
- Gujarati (Bilingual)