

# Shrestha Dey

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## SUMMARY

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Zealous AI/ML engineer with a strong background in machine learning. Skilled in Blockchain, Java, SQL and various ML libraries. Excellent problem-solving, leadership and management abilities. Seeking a challenging role to develop cutting-edge AI solutions.

## SKILLS

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**Programming Languages:** Java, SQL

**Developer Tools:** VS Code, Google Colab

**Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn

## PROJECTS

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### VoteBox

*Blockchain Project*

May 2025 – May 2025

*Solidity, Ethereum Virtual Machine*

- Established a decentralized voting system on Blockchain. Designed it to provide a transparent and immutable platform where participants can pitch votes for registered candidates, ensuring that each voter can participate only once.
- Built the contract in such a way that it differentiates between an owner and regular users. The owner manages candidate registration and regular users can cast votes, thereby creating a controlled yet publicly demonstrable and confirmable voting mechanism.

### Sales Forecasting and Data Enrichment

*Machine learning Model*

June 2025 - June 2025

*Python, Pandas, CatBoost, Upgini*

- Developed a system to facilitate in predicting 3 months of future sales for various items across 10 different stores. This comes under a typical time-series forecasting problem.
- Implemented enriching features with tools like Upgini and curtailed baseline Symmetric Mean Absolute Percentage Error from 37.65% to enriched Symmetric Mean Absolute Percentage Error of 3.51%. Obtained an improvement of about 90.66%.

### Smart Irrigation System

*ANN Application*

July 2025 - Present

*Python, ANN, ESP32, Sensors*

- Designing an ANN model that predicts when irrigation is necessary. The system collects real-time data from the sensors and feeds it into the ANN model.
- Enhancing the solution using IoT allowing wireless data collection and control of irrigation systems. This ensures that farmers can monitor and manage irrigation remotely with minimal manual effort.

## EDUCATION

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### VIT Bhopal University

*B.Tech in Computer Science, specialization in AI&ML – CGPA-9.01*

Bhopal, Madhya Pradesh

Sept 2023 - Sept 2027

### Narbheram Hansraj English School

*Higher Secondary Education – 92%*

Jamshedpur, Jharkhand

March 2023

## HOBBIES

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- Exploring different languages, cultures and cuisines

## CERTIFICATIONS

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- Cloud Computing - NPTEL Certification
- Blockchain Developer- IBM Career Education Program