Shrestha Dey

620-372-2295 | deyshresthaofficial01@gmail.com | linkedin.com/in/shresthadey2211 | github.com/SHRESTHA-012

SUMMARY

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

SKILLS

Programming Languages: Java, SQL, C++, Python

Developer Tools:VS Code, Google Colab , Git, GitHub, Blender

Libraries & Frameworks: NumPy, Pandas, Matplotlib, Scikit-learn , JavaScript, React, TailwindCSS

PROJECTS

Sales Forecasting and Data Enrichment   June 2025 - June 2025
Machine learning Model   *Python, Pandas, CatBoost ,Upgini*
- Curated 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%.

Windows Media Automation Agent   Jan 2025 - Feb 2025
Local Screen Media Controller   *Python, Windows SDK, asyncio, msvcrt*
- Architected a system-level media orchestration tool that interfaces with Windows media session APIs to coordinate cross-application playback between Spotify and YouTube achieving 0.5s response latency.
- Engineered a real-time, asynchronous playback monitoring pipeline Engineered an asynchronous real-time monitoring pipeline maintaining 2% CPU usage while continuously tracking cross-application playback state transitions.

Crowd Detection and Management   December 2025 - Present
CSRNet Application   *Python, PyTorch , Raspberry Pi, Camera modules, React , Node.js, AWS*
- Developing a full-stack crowd detection and management using CSRNet for crowd density analysis.
- Enhancing the solution using integrated IoT-based camera modules for real-time crowd monitoring and data ingestion.

WORK EXPERIENCE

AI Intern   October 2025 – January 2026
Yonder Ai   *Gurugram,India*
- Developed and applied Liquid Neural Models for dynamic and time-dependent data.
- Analyzed and transformed data to enhance model training and performance.
- Designed an optimized model for student strength and weaknesses in terms of their subjects using Liquid Neural Networks.

EDUCATION

VIT Bhopal University   Bhopal, Madhya Pradesh
B.Tech in Computer Science,specialization in AI&ML — CGPA-8.95   *Sept 2023 - Sept 2027*
Narbheram Hansraj English School   Jamshedpur, Jharkhand
Higher Secondary Education — 92.7%   *March 2023*

CERTIFICATIONS

- Cloud Computing - NPTEL Certification
- Applied Machine Learning in Python - Coursera
- Blockchain Developer - IBM Career Education Program