Bhavya Pratap Singh Tomar

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Education

Madhav Instute of Technology and Science — Gwalior, MP
Bachelor of Technology in Artificial Intelligence and Machine Learning — *May 2022 – Present*

St. Mary's School — Bhopal, MP
CBSE (Class XII) — *April 2021*

Experience

Software Engineering Fellow — July – Present
Headstarter AI · Internship — *Long Island City, NY*

- Building 5 AI projects in 5 weeks, targeting 1000 people on a waitlist ,1000 accounts created
- Successfully generating $1000 in revenue through improved sales strategies
- Enhancing personal brand, expanding network, and developing innovative AI solutions
- Enhancing teamwork, collaboration, and sales skills.

Artificial Intelligence Engineer — Nov 2023 – Feb 2024
Radical X — *Georgetown, NY, US*

- Collaborated on multiple AI hackathons and participated in hackathons
- Utilized OpenAI, VertexAI, and Tensorflow to enhance our Rex, our AI Coach
- Develop solutions for personalized career guidance and mentorship

Event Coordinator — Jan 2024 – Present
Developers — *Hyderabad, Telangana, India*

- Coordinated online webinars across various platforms with fellow community members.
- Increased community engagement by 78% through targeted email marketing campaigns
- Created efficient pipelines for seamless event conduction

Projects

YouStock | *Python, Streamlit, Prophet, pandas, numpy, transformers, matplotlib, plotly, replicate, cufflinks.*

- Developed trading strategies and evaluated market dynamics, improving accuracy by 15% and insights by 20%.
- Integrated sentiment analysis with financial metrics, increasing precision by 10%.
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- Analyzed and backtested quarterly earnings, boosting performance by 12%.
- Created personalized investment insights, raising user engagement by 20% and reducing portfolio risk by 10%.

Abstractive Gen AI Q&A Bot | *Flax, Pinecone, ELI5, BART, Python*

- Developed an enhanced Q&A system using the ELI5 BART model for better answers.
- Optimized data processing by integrating Pinecone for faster vector storage and retrieval.
- Implemented Flax sentence embeddings for efficient and enhacing the dataset retrieval.

Project Narmadae | *Pandas, scikit-learn, joblib, Flask, Flask-APScheduler, pulp, psycopg2-binary, requests*

- Detected anomalies and predicted leaks in water usage patterns.
- Created UI charts for high water usage areas, boosting user engagement by 78%.
- Achieved 84% F1 score for leak detection using Isolation Factor, One-Class SVM, and Local Outlier Factor.
- Used PyCaret for water demand forecasting with 89% accuracy.

Technical Skills

Languages: Python, C++, JavaScript, SQL
Frameworks: TensorFlow, PyTorch, Hugging Face Transformers, Lang Chain
Developer Tools: TensorFlow, PyTorch, Hugging Face Transformers, Lang Chain
Techniques and Concepts: Data Analysis, Time Series Analysis, Deep Learning (CNN, RNN, LSTM, GANs), NLP, NMT, LLM, Text Generation, Sentiment Analysis, OpenAI API, LLaMA
Libraries: NumPy, pandas, Matplotlib, Seaborn, Scikit-learn
Certificates: Coursera: Machine Learning Specialization by Andrew Ng, Stanford; Coursera: Natural Language Processing Specialization by Deeplearning.io; Gold Standard Certificate (12/2022); Completed "A December of Algorithms" conducted by SVCE