

Yash Raju Masane

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Education

Motilal Nehru National Institute of Technology, Allahabad
M.Sc. in Mathematics and Scientific Computing

Aug 2022 – May 2024
CPI: 7.48

Nagpur University
Bachelor of Science

July 2018 – June 2021
CGPA: 8.44

Experience

Machine Learning Intern, AnuBrain Technologies

October 2024 - January 2025

- **Developed a high-precision Direction of Arrival (DoA) estimation model:** Designed and implemented a custom architecture combining LSTM, CNN, and Multi-Head Attention, achieving 95% accuracy.
- **Optimized feature selection process:** Integrated Multi-Objective Grey Wolf Optimization (MOGWO) with MRMR, enhancing model performance by 2% as per company research specifications.

Projects

InsurePredict—Customer-Conversion-Insights:

[Github Link](#)

- Designed and deployed an end-to-end insurance customer prediction system on AWS EC2, using Docker containerization and CI/CD pipelines to ensure seamless automation and scalability.
- Developed a robust Random Forest model to forecast customer insurance purchases, achieving 95% overall accuracy, 80% precision (accurately targeting potential customers), and 90% recall (maximizing coverage of actual prospects).
- Implemented a comprehensive MLOps workflow with automated model retraining and deployment, ensuring continuous improvement and long-term reliability.

MoneyMinds – Intelligent AI agents managing investments:

[Github Link](#)

- Engineered a multi-agent AI system with CrewAI and Gemma-2 LLM that integrates four specialized tools for comprehensive stock analysis using technical, fundamental, sentiment, and risk evaluation.
- Processed over fifteen critical financial and market metrics from Yahoo Finance data, reducing analysis time by 40 percent and delivering in-depth insights.
- Designed Python-based agents to synthesize diverse market data into actionable investment strategies, enhancing decision-making and portfolio evaluation.

Technical Skills

- **Programming Languages:** Python, C, SQL
- **Databases:** MySQL, Microsoft SQL Server
- **Machine Learning & Deep Learning:** Supervised & Unsupervised Learning, Random Forest, XGBoost, Decision Trees, PCA, Logistic Regression, SVM, LSTM, CNN, ANN, RNN
- **Natural Language Processing (NLP):** Text Preprocessing, Sentiment Analysis, Named Entity Recognition (NER)
- **Large Language Models (LLMs):** Transformers, BERT, GPT, LLaMA
- **Data Visualization & Business Intelligence:** Matplotlib, Seaborn, Power BI
- **Machine Learning Frameworks:** TensorFlow, Keras, PyTorch, scikit-learn, LangChain
- **MLOps & Model Deployment:** MLflow, DVC, Docker, CI/CD Pipelines, AWS (EC2, S3, Lambda, SageMaker)

Certifications and Courses

- **Machine Learning A-Z** (Udemy)
- **Relevant Coursework:** Linear Algebra, Probability and Statistics, Calculus, Optimization, Mathematical Modeling

Achiments

- **GATE 2024:** Cleared with specialization in AI & Data Science, highlighting expertise in ML and algorithms.
- **JAM 2022:** Cleared in Mathematics, showcasing a strong foundation in mathematical concepts for data science.