

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
<ul style="list-style-type: none">• 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 — <i>Customer-Conversion-Insights:</i>	Github Link
<ul style="list-style-type: none">• 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 – <i>Intelligent AI agents managing investments:</i>	Github Link
<ul style="list-style-type: none">• 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.