

Naman Bhargava

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EDUCATION

Master of Data Science University of Michigan, Ann Arbor, MI CGPA: 4.0/4.0 Relevant Courses: Information Visualization, Statistical Learning	Aug. 2023– Present Expected Graduation: May 2025
Integrated Master of Science (Software Systems) PSG College of Technology, Coimbatore, India CGPA: 8.75/10 Relevant Courses: Database Management Systems, Machine Learning, Natural Language Processing	June 2018- June 2023

PROFESSIONAL EXPERIENCE

AIMS Lab, University of Michigan , Ann Arbor <i>Graduate Student Research Assistant</i> <ul style="list-style-type: none">Designed and implemented a Data Mining and Labelling pipeline to extract and analyze the sentiment of tweets related to Nuclear Engineering.Finetuned large language models on a multi-GPU architecture, significantly optimizing training time for a dataset of 500,000 entries and achieving 94% accuracy.	Sept. 2023 - Present
Indian Institute of Technology Roorkee , India <i>Undergraduate Research Intern</i> <ul style="list-style-type: none">Implemented XGBoost model to predict the anomaly in crop growth within the first 5 weeks of sowing.Augmented data using GAN model, which improved XGBoost performance to 80%.Created a yield prediction app in MATLAB using SVM model, along with further analysis by displaying temporal variations in individual field data using visual interface.	Dec. 2022- May 2023
Institute of Mathematical Sciences Chennai , India [Paper] [Code] <i>Summer Intern</i> <ul style="list-style-type: none">Developed Support Vector Machine model for assessing contamination of maternal milk by chemicals with an accuracy of 77.33% and specificity of 84%.	June 2022- July 2022
Indian Institute of Technology Roorkee , India [Paper] <i>Undergraduate Research Intern</i> <ul style="list-style-type: none">Built XGBoost model(RMSE=0.159) to estimate Fractional Vegetation Cover parameter using SAR data for Wheat and Sugarcane crops.Employed feature selection techniques to select the 5 most important features for prediction, thus reducing prediction time over large fields.	June 2021 – Dec. 2021

TECHNICAL KNOWLEDGE

Programming Languages: Python, R, MATLAB
Machine Learning & Analytics: TensorFlow, scikit-learn, PyTorch, Keras , Matplotlib, seaborn, Tableau, Excel

ACADEMIC PROJECTS

Kaggle Forecaster [Paper] <ul style="list-style-type: none">A Time Series Analysis model developed in Python using SARIMA with MAPE of 11%.Optimized the data extraction and prediction process using Factory and Adapter Patterns, improving code maintainability by 46.18% and reduced its complexity by 73.5%.
Travel Assistant <ul style="list-style-type: none">Developed a travel assistant incorporating Google Gemini, enabling users to upload location images and receive travel routes to the destination using Google Maps API.Implemented additional chatbot feature, facilitating personalized trip planning based on user preferences.
Soccer Analytics [Dashboard] <ul style="list-style-type: none">Designed and developed an interactive dashboard for analyzing player performance and event distribution in soccer leagues.Implemented multiple filter options for users to customize the analysis based on league, game, players, and specific events, from a dataset containing more than 30,00,000 entries.