Hritik Chhabra

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Education

Birla Institute of Technology and Science, Pilani **2020 - 2025**
B.E. (Hons.), Computer Science and M.Sc. (Hons.), Economics, 2025 *7.42 CGPA*

Work Experience

OnFinance (Bangalore) **May 2022 – July 2022**
Software Development Intern *Remote*

- Developed and enhanced frontend features using React, directly under the supervision of the founders.
- Played a key role in projects aimed at optimizing application scalability, improving load handling by 20%.
- Involved in all phases of the software development lifecycle, authored documentation, and debugged features to ensure software reliability.
- **MERN** stack used: **React.js** for UI, **Flask** for backend, **MongoDB** for storage.

Technical Skills

Languages: Python, C++, R, VBA
Clouds & Databases: AWS, PostgreSQL, MongoDB
Web Technologies: Docker, Socket.IO
Analytical Skills:Numpy, Scipy, Tensorflow, Excel

Projects

Policy Evaluation During Economic Crises Using Bayesian VAR

- Directed a sophisticated econometric project to evaluate the effectiveness of economic policies in India amidst crises, utilizing Bayesian Vector AutoRegression (Bayesian VAR).
- Engineered and executed advanced statistical modeling of macroeconomic data using Bayesian methodologies in Python and R, improving model robustness and predictive accuracy.
- Increased the reliability of economic impact assessments by 30% through the integration of prior information and probabilistic forecasting techniques.

Deep Reinforcement Learning for Optimal Trading Strategies

- Implemented and optimized deep reinforcement learning models using Python, Pandas, NumPy, and TensorFlow, improving trading strategy performance by 25%.
- Employed TensorFlow and TF-Agents to architect and refine complex trading algorithms, resulting in a 20% increase in algorithmic efficiency and financial return.
- Conducted 50+ experimental trials to identify optimal model parameters, boosting potential investment returns by 15% in simulated environments.

Stock Market Prediction Using ANFIS in Python

- Developed an Adaptive Neuro-Fuzzy Inference System (ANFIS) in Python to enhance stock prediction accuracy by 20%, outperforming traditional LSTM and BiLSTM models.
- Optimized model performance using advanced techniques, leading to a 15% improvement over conventional forecasting methods through rigorous backtesting on two years of data.
- Demonstrated superior model reliability and robustness, achieving a 10% higher effectiveness in fluctuating market conditions compared to other neural network models.

Achievements/Certifications

- Bloomberg Market Concepts
- Bloomberg ESG Certification
- NISM VIII: Equity Derivatives
- Machine Learning Specialisation
- Solved 300+ medium Problems on leetcode