Atharv Sen

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EDUCATION

Bachelor of Technology, Manipal Institute of Technology, Manipal Sep 2021 - Present
B. Tech in Data Science and Engineering
Senior Secondary, Shiv Jyoti, Kota Apr 2019 - Jun 2021
Scored 92.6 percent in CBSE Board
High School, Delhi Public School, Mathura Apr 2016 - Mar 2019
Scored 97.6 percent in CBSE Board Exams

TECHNICAL SKILLS

Languages: Python, SQL, C/C++, Java, HTML/CSS, JavaScript, Apache Spark
Libraries/Framework: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, C++ STL, CUDA, OpenMP
Developer Tools: Git, GitHub, Jupyter Notebook, Visual Studio Code, PyCharm, Android Studio
Core Skills: Data Cleaning and Preprocessing, Feature Engineering, Predictive Modeling, Statistical Analysis, Data Visualization, Model Deployment, ETL Processes, Time-Series Analysis, Regression Analysis
Coursework: Design and Analysis of Algorithms, Object Oriented Programming, Database Management System, Machine Learning, Natural Language Processing, Reinforcement Learning, Web Technologies, Parallel Programming, Big Data Analytics

WORK EXPERIENCE

Skyrobee Aerolabs, AI-ML Intern MIT, Manipal, May 2024 - Jul 2024
- Engineered and fine-tuned edge-based computer vision algorithms (YOLOv5, MobileNetV2 SSD), improving threat detection accuracy by 30% and reducing latency by 50%, directly enhancing drone security performance.
- Enhanced AI-ML pipelines using TensorFlow and OpenCV, boosting real-time human detection accuracy by 25% and reducing false positives by 10% by leveraging model optimization techniques.

Indian Oil Corporation, Intern New Delhi, Jun 2023 - Aug 2023
- Benchmarked ML platforms (3 major - Alteryx, Dataiku, Knime), identifying bottlenecks and refining workflows to improve data analysis efficiency and enable better data-driven decisions.
- Conducted market research on 55+ startups in blockchain, EVs, cryptocurrency, and AI-ML, providing data-backed recommendations that enhanced IOCL's global strategy and positioning.

PROJECTS

Stock Prediction Analysis (Self-initiated) Apr 2024 – Jul 2024
- Designed and executed comprehensive feature engineering and data preprocessing techniques for stock price prediction, improving model training efficiency by incorporating 7 key financial indicators to enhance forecasting accuracy.
- Implemented CNN, transformer, and LSTM models using Python on Google Colab for predictive modeling, leveraging time-series analysis techniques for financial forecasting.
- Achieved 30-40% accuracy in stock price prediction models, emphasizing risk-reward optimization for real-world decision-making scenarios.

AutoInfo: A website about car info Oct 2023 - Nov 2023
- Created and launched a car information website using five technologies (HTML, CSS, JavaScript, PHP, MongoDB), integrating SEO and intuitive UI to improve accessibility and drive user engagement for specification comparisons.

Student Database Management System Mar 2023 - May 2023
- Implemented and deployed a MySQL-based data management system with a modern user interface (HTML, CSS, PHP), improving data processing speed by 25% and streamlining secure user access through intuitive login features.

POSITION OF RESPONSIBILITIES

- **Music Head, Aaina Dramatics:** Oct 2023 - Present
  Directed music for 15+ inter and intra college events, winning 1st prize at NITK and IIM-B, representing at Mood-I, IIT Bombay.
- **E-Cell Executive:** Feb 2023 - Nov 2023
  Orchestrated the Manipal Entrepreneurship Summit 2023, exceeding 5,000 attendees and managing recruitment interviews.
- **ProShow Organizing Committee Member, Revels 2023:** Jan 2023 - Mar 2023
  Coordinated artist unveilings, contributing to an event attended by 10,000+ participants, enhancing overall audience engagement.
- **IOSD Management Committee Member:** Aug 2022 - April 2023
  Organized a workshop with Sandeep Jain from geeksforgeeks.org, enhancing collaboration and event planning skills.
- **E-Cell Associate:** Jan 2022 - Feb 2023
  Provided mentorship for students, participants interns and played a key role in the successful execution of TechTatva.

INTERESTS & ACHIEVEMENTS

Sports (Badminton – State Level player, Swimming), Musical Instruments (Diploma in Tabla, Synthesizer, Percussionist), Traveling, Exploring and Reviewing Tech Products, Testing Custom OS Features (Android, iOS, Windows), Public Speaking, Data Visualization, Design Thinking, Cultural Exploration, Photography.