HARSHITA ANALA

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Education

Vivekanand Education Society Institute of Technology **2020 – 2024**
Bachelor of Technology in Artificial intelligence and Data Science *CGPA 9.23*

Relevant Coursework

- Machine Learning
- Deep Learning
- Statistics for AI & DS
- DBMS
- Artificial Intelligence
- Big data analytics
- Data analytics & visualization
- DSA
- OOPS
- Analysis of algorithms

Work Experience

Impactworks Technology Solutions Pvt Ltd **August 2024 – Present**
Data Scientist

- Analyzed extensive salon data to predict service revenue and seasonality trends, developing analytical dashboards to drive data-driven insights and strategic decision-making.
- Analyzed 500,000+ retail sales records by consolidating 30+ SQL dump tables into a single dataset using MySQL Workbench, uncovering trends that improved inventory decisions and boosted stock utilization by 20%, while reducing preprocessing time by 30%.
- Designed and deployed time-series forecasting models using FB Prophet, achieving 80% accuracy in predicting future product sales and increasing forecast reliability for client platforms.

Reliance JIO **May 2023 – June 2023**
Machine Learning Intern

- Designed an AI-driven chatbot to resolve 560,000+ customer complaints, reducing call handling times by 40% and boosting resolution efficiency.
- Applied an LSTM model, achieving 84% classification accuracy, and leveraged Logistic Regression for entity extraction, achieving 92% precision in validation processes.

VESIT Renaissance Cell **Dec 2022 – Jan 2023**
Undergraduate Research Intern

- Conceptualized a disease diagnosis system of various organs, improving detection accuracy by 90%.
- Utilized CNN layers to extract tumor features and employed OpenCV for detecting abnormalities, increasing early detection rates by 25%.

Projects

- **Predictive Maintenance Of Servers** | *Python, Machine Learning, Power BI* **May 2023 – April 2024**
  - Innovated a predictive maintenance solution using SVM, KNN, LSTM, and stratified K-fold validation, minimizing downtime by 15% and improving efficiency.
  - Optimized model accuracy to 87% with LSTM, leveraging its ability to capture temporal patterns and long-term dependencies in server health data.
  - Crafted an interactive Power BI dashboard, delivering 10 actionable insights and reducing manual monitoring by 30%.

E-Takraar | *NLP, Machine Learning, Tailwind CSS* **March 2023**

- Architected a secure, user-friendly website incorporating NLP and machine learning to improve complaint resolution speed by 25%.
- Trained a Random Forest Classifier, achieving 88% accuracy, and employed advanced text processing techniques such as TF-IDF, Porter Stemmer, and tokenization to enhance performance.

MediCam | *CNN, Transfer learning, OpenCV* **Dec 2022 – Jan 2023**

- Created a disease detection system capable of diagnosing brain, kidney, and eye ailments, achieving 90% accuracy and reducing manual diagnostic workload by 20%.
- Implemented CNN for precise image analysis and applied transfer learning, decreasing training time by 40% while maintaining high detection accuracy.
- Improved generalization through data augmentation, ensuring robust performance in real-world scenarios.

Technical Skills

Languages: Python, SQL, Java, C, HTML/CSS, JavaScript, R
Technologies/Frameworks:Pyspark, Pytorch, Keras, Langchain, Langflow, Excel, Power BI, AWS, GitHub