Ankita Singh

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Education

Indian Institute of Technology (ISM) — Dhanbad, Jharkhand
Master of Science in Mathematics and Computing — *Aug 2022 - May 2024*
CGPA: 3.3/4.0 (4-point scale)

Patna Women's College — Patna, Bihar
Bachelor of Science in Mathematics (Hons.) — *April 2019 - April 2022*
CGPA: 3.9/4.0 (4-point scale)

Technical Skills

Languages: C++, Python (including libraries: NumPy, Pandas, Matplotlib, Streamlit, Scikit-learn), SQL
Frameworks & Tools: Docker, Excel, Tableau, Web Scraping, TensorFlow
Databases: PostgreSQL, SQLite, GCP Storage, BigQuery
Statistical Analysis: Probability, Inferential Statistics, Time-Series Analysis
Machine Learning: Supervised and Unsupervised Learning, Natural Language Processing, Semantic Analysis
Analytical Skills: Data Analytics, Data Visualization, Data Mapping, Data Insights, Statistics, Quantitative Analytics
Blockchain: Cryptography, DeFi, Basics of Blockchain, Distributed Systems

Experience

Infinite Analytics — Apr. 2024 – Present
Data Science Intern (Mumbai, Maharashtra, India)

- Developed a campaign optimization model utilizing Q-learning to enhance effectiveness and decision-making.
- Conducted in-depth analysis of campaign metadata, identifying key performance drivers and trends.
- Collaborated with cross-functional teams to deliver actionable insights and recommendations for optimizing future marketing strategies.

Indian Institute of Technology (ISM) — Jan. 2024 – Mar. 2024
Research Intern (Dhanbad, Jharkhand, India)

- Worked on a project aimed at detecting human yoga postures using Graph Neural Networks (GNN) to enhance the detection process.
- Analyzed a dataset of diverse yoga posture images, identifying joint points as nodes within the network for more accurate detection.

Projects

Time Series Cryptanalysis Using LSTM Networks | *Python, Deep Learning* — *August 2024*

- Demonstrated the application of Long Short-Term Memory (LSTM) networks for cryptanalysis, specifically aimed at breaking the Caesar Cipher encryption by predicting plaintext from ciphertext using deep learning techniques.

Uber Data Analytics Project | *GCP, Python, BigQuery* — *November 2023*

- Performed comprehensive data analytics on Uber data utilizing tools and technologies such as GCP Storage, Python, Compute Instance, Mage Data Pipeline Tool, BigQuery, and Looker Studio, providing insights into user behavior and service efficiency.

Sign Language Detector | *Python, Machine Learning* — *May 2024*

- Implemented a sign language recognition system using machine learning techniques, designed to recognize hand gestures from video input and translate them into corresponding text.

Achievements

- Selected as a member of the Mathematics Training and Talent Search (MTTS) Programme in 2021.
- Secured All India Rank (AIR) 535 in IIT JAM 2022.

Relevant Coursework

- **Courses:** Data Structures and Algorithms, Database Management System, Data Analytics, Design and Analysis of Algorithms, Data Mining, Probability and Statistics, Inferential Statistics, Distributed System.
- **Online Certifications:** Machine Learning Specialization, Coursera ; CS120: Bitcoin for Developers, Saylor Academy , Credential ID 7391432686AS; PRDV151: Bitcoin for Everybody, Saylor Academy , Credential ID 3760650151AS; Cryptography I, Stanford University .