


# Ankita Singh

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## EDUCATION

### Indian Institute of Technology (ISM)

*Master of Science in Mathematics and Computing*

CGPA: 3.3/4.0 (4-point scale)

Dhanbad, Jharkhand

Aug. 2022 - May 2024

### Patna Women's College

*Bachelor of Science in Mathematics (Hons.)*

CGPA: 3.9/4.0 (4-point scale)

Patna, Bihar

Apr. 2019 - Apr. 2022

## TECHNICAL SKILLS

**Languages:** C++, Python (NumPy, Pandas, Matplotlib, Streamlit, Scikit-learn), Go, SQL

**Frameworks & Tools:** Docker, TensorFlow, Web Scraping, Tableau, Excel

**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 Tools, Data Mapping, Data Processing, Data Insights

**Blockchain:** Cryptography, Decentralized Finance (DeFi), Blockchain Fundamentals, Distributed Systems

## EXPERIENCE

### Infinite Analytics

Apr. 2024 – Present

*Data Scientist, Internship (Mumbai, Maharashtra, India)*

- Engineered a Q-learning model to automate the optimisation and simulation process of developing campaign strategies, improving decision-making accuracy by 14%, increasing ROI by 25%, and reducing campaign costs.
- Evaluated campaign metadata, identified KPIs, and refined strategies, enhancing campaign efficiency by 21% and decreasing costs by 9%. Also, Collaborated with clients to deliver actionable data-driven insights.

### Indian Institute of Technology (ISM)

Jan. 2024 – Mar. 2024

*Research Analyst, Internship (Dhanbad, Jharkhand, India)*

- Pioneered a Graph Neural Networks-based system for human yoga posture detection, achieving an 18% improvement in recognition accuracy and a 12% decrease in false positive rates.
- Leveraged a dataset of 82 yoga postures to identify key joint locations as network nodes, enhancing posture recognition precision. Applied this joint-based method to boost the robustness and accuracy of pose classification.

## PROJECTS

### Time Series Cryptanalysis Using LSTM Networks | Python, Deep Learning

Aug. 2024 – Sep. 2024

- Implemented Long Short-Term Memory (LSTM) networks for cryptanalysis, focusing on breaking the Caesar Cipher encryption. Predicted plaintext from ciphertext using deep learning techniques.

### Sign Language Detector | Python, Machine Learning

May 2024 – Jun. 2024

- Created a sign language recognition system using machine learning, which interprets hand gestures from video input and translates them into corresponding text.

### Uber Data Analytics Project | GCP, Python, BigQuery





Nov. 2023 – Dec. 2024

- Conducted comprehensive data analytics on Uber's dataset, resulting in a 16% improvement in route optimization and a 13% decrease in response times using GCP Storage, Python, and BigQuery.

## 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 .