

# Ansh Mehta

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## EDUCATION

### Northeastern University, Boston, Massachusetts, United States

September 2023 - May 2025

Candidate for Master of Science in Computer Science

Coursework: Foundations of Artificial Intelligence, Algorithms and Data Structures, Programming Design Patterns, Cloud Computing

### The LNM Institute of Information Technology, Jaipur, Rajasthan, India

August 2017 - May 2021

Bachelor of Technology in Computer Science

Coursework: Machine Learning, Image Processing, Natural Language Processing, Social Network Analysis, Data Sciences (Applied Statistics)

## SKILLS

**Programming Languages** : Python (PyTorch, PySpark, Pandas, NumPy, Scikit-Learn, Matplot, NLTK), R, JAVA, Javascript, SQL, C++  
**Databases** : Cassandra, ElasticSearch, Redshift, PostgreSQL, MySQL, Clickhouse  
**Toolkits/Framework** : Github Actions, Kafka, Git, Docker, Kubernetes, Ansible, Terraform, Jenkins, Azure Cloud  
**Data Science/Analysis Techniques**: Regression, Data Mining, Clustering, SVM, Deep Learning (RCNNs, LSTM), Reinforcement Learning, LLMs  
**Certifications**: Data Science Foundations, Python for Data Analysis, Managing Data with SQLite

## EXPERIENCE AND INTERNSHIPS

### Software Engineer (Data Engineer)

July 2021 – July 2023

Whatfix, Bengaluru, India

- Engineered a large-scale data processing and web analytics platform by integrating JAVA (Spring boot) microservice, Nginx, Clickhouse, Apache Kafka, Azure VMs, streamlining the ingestion and transformation of 50M events data per day
- Orchestrated development of intricate data pipelines with Terraform, successfully integrating data from disparate sources into Clickhouse database, enhancing data processing efficiency
- Designed materialized views within Clickhouse, employing advanced features to optimize 30 distinct data tables. Produced virtual tables for resource optimization and clustering keys in SQL to enhance query performance
- Optimized data science workflows by connecting ClickHouse DB with Apache Superset using Apache Spark, facilitating quicker insights and decision-making to product teams, also wrote DevOps automation scripts for improving efficiency
- Fostered collaboration by query resolution sessions on analytics product for solutions and success teams addressing over 150 specific inquiries related data visualization strategies, data integrations, leading to 40% reduction in support tickets

### Software Engineering Intern

January 2021 – June 2021

Whatfix, Bengaluru, India

- Facilitated an organizational migration of backend services to Azure from AWS, handling weekly interactions from analytics team, that enhanced efficiency and reduced costs by optimizing cloud resources
- Devised and initiated improvements to an ETL pipeline using Hadoop (PIG) to process analytics event data encompassing data cleansing, transformation, and loading the refined data into Amazon Redshift database in a serverless manner
- Created reusable 10+ React components for tabular and chart data aiding users in analyzing critical KPIs of adoption and usage of Whatfix platform offering stakeholders insights on operational efficiency

### Research Intern

December 2019 – December 2020

The LNM Institute of Information Technology, Jaipur, India

- Publication:** [Hybrid Computing Scheme for Quasi-Based Deployment in the Internet of Things](#)
- Proposed clustering (K-means, Hierarchical clustering) using python to evaluate deployment of IoT devices over a large region, and publishing a quasi-random model for deployment and localization of devices
- Researched and applied distributed computing scheme to precisely enable computation and communication in devices, helping develop test framework for evaluating the deployment over multiple network parameters
- Expanded research to supervised learning models (Support Vector Machine, Random Forest), and AI model to enable classification of devices in client-server computing scheme for improving utilization of network resources
- Achieved a 10% improvement over novel model of deployment, and aiding in effective communication of IoT devices through machine learning (AI/ML) techniques

## ACADEMIC PROJECTS

### Reinforcement Learning in NES Tetris: Deep-Q-Networks, Double DQN, Q-learning

September 2023 – December 2023

- Implemented reinforcement learning model (Deep-Q-Networks) using python on training Artificial Intelligent agent to play tetris
- Preprocessed and scaled environment inputs using OpenCV, reducing noise for learning optimization

### Entity Relationship Extraction in Fictional Novels: Sentiment, Relationship of Entities

February 2019 – April 2019

- Developed a NLP model capable of handling linguistic features and extracting meaningful insight from medical and patient data
- Utilized Python libraries like NLTK and spaCy, to perform text analytics, tokenization, PoS tagging, and data visualization

### Exploring Network of US Flights: Complex Network Analysis

September 2020 - December 2020

- Prepared visualizations using Python on various network parameters (centrality, distributions, clustering coefficients, PageRank)
- Performed statistical modelling, and visualizations and comprehending the reports to give meaningful insights into the US flights