

# Mohana Alapati

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## Profile

Detail-oriented and analytical Data Analyst with a strong foundation in data science, statistical analysis, and business intelligence. Experienced in leveraging data visualization tools, SQL, and Python to derive actionable insights and drive strategic decision-making. Adept at interpreting complex datasets and presenting findings to technical and non-technical stakeholders. Passionate about solving real-world problems through data-driven approaches and continuous learning.

## Education

Master's in Data Science | April 2025 | Western Michigan University, Michigan

Bachelor of Science in Computer Science| May 2022 | RMK College of engineering, India

## Experience

### STUDENT MANAGER| WESTERN MICHIGAN UNIVERSITY | JUNE 2023 – PRESENT

- Supervised facility operations on the weekends and in the evenings, making sure that customer service and event management ran well.
- Shown problem-solving skills by managing A/V equipment and resolving technical challenges. complied with safety regulations, worked with a variety of teams, and helped visitors.
- Developed decision-making, critical thinking, and leadership abilities in a fast-paced setting.

### VOLUNTEER | STRYKER | FEBRUARY 2024 – AUGUST 2024

- Analyzed complex datasets to derive actionable insights, improving decision-making processes within the organization.
- Collaborated with cross-functional teams to identify key performance indicators (KPIs) and optimize business strategies.
- Developed data visualization dashboards to effectively communicate findings and trends to stakeholders.
- Presented analytical findings to senior management, contributing to strategic planning and operational improvements.

### DATA ENGINEER | NETXCELL | JANUARY 2020 – OCTOBER 2022

- Utilized SQL for database management and manipulation, ensuring data accuracy and integrity throughout the software development lifecycle
- Leveraged Tableau for data visualization and analysis, enhancing reporting capabilities and providing valuable insights to stakeholders
- Participated in an internship program, gaining hands-on experience and further honing skills in the field of Data Analytics Software Development

## Programming Skills

- |                   |               |          |
|-------------------|---------------|----------|
| • Python          | • MATLAB      | • LaTeX  |
| • R Programming   | • SQL         | • SCALA  |
| • SAS Programming | • Java script | • Hadoop |
| • C Programming   | • Spark       |          |

## Other Skills

- |                               |                         |                      |
|-------------------------------|-------------------------|----------------------|
| • Natural Language Processing | • Data Analysis         | • GIT                |
| • Database Management         | • Business Intelligence | • Data Visualization |
| • Power BI                    | • Microsoft Excel       | • SAS                |
|                               | • Tableau               | • SPSS               |

## Projects

- **Western Michigan University program of study**, The WMU Program of Study project is a tool designed to assist academic advisors by providing a overview of a student's academic progress. It displays completed courses along with grades and identifies remaining classes that need to be taken in the upcoming semester based on course availability.

**Skills:** Python, SQL, Web Development (HTML, CSS, JavaScript), Data Analysis (Pandas, NumPy)

- **Stock Market Prediction Using Python and Machine Learning**, Developed a predictive model to forecast stock market trends utilizing Python and advanced machine learning techniques. This project involved gathering historical stock data, feature engineering, and applying various algorithms to predict future price movements.

**Skills:** Python, Machine Learning (Scikit-learn, TensorFlow), Time Series Forecasting Data Visualization (Matplotlib, Seaborn)

- **Human Activity Recognition using Machine Learning**, Achieved the ability to accurately identify and classify human actions based on motion and activity patterns., Implemented real-time detection capabilities, notifying relevant actions.

**Skills:** Python, Machine Learning (Scikit-learn, TensorFlow), Real-Time Systems (Streamlit, Flask), Data Processing (Pandas, NumPy)

- **Facial Recognition using Machine Learning**, This project involves developing a facial recognition system to identify and verify individuals by analyzing facial features. The system can detect faces in images or video frames, extract unique facial features, and match them against a database to recognize individuals in real-time.

**Skills:** Python, Machine Learning (OpenCV, TensorFlow), Computer Vision, Deep Learning (CNN)

- **Movie Rating using HADOOP**, implemented a Movie Rating Analysis project using Hadoop and MapReduce, highlighting proficiency in big data technologies and distributed computing., Successfully processed and analyzed large-scale movie datasets, demonstrating the ability to derive meaningful insights through parallel processing.

**Skills:** Hadoop, MapReduce, Big Data (HDFS, Spark), Data Processing (Java, Python)

## Certifications

- **Data Science Certification** *Cognitive Class* Issued Sep 2021 Skills: Databases, Data Analytics
- **Introduction to Statistics** *Stanford University* Issued Dec 2022 Skills: Statistical Data Analysis
- **Data Visualization and Communication with Tableau** *Duke University* Issued Oct 2022 Skills: Tableau, Data Analytics
- **The Structured Query Language (SQL)** *University of Colorado Boulder* Issued Sep 2022 Skills: SQL, Data Analysis
- **Data, Data, Everywhere** *Google* Issued Jun 2022 Skills: Data Management, SQL, Data Analytics
- **Fundamentals of Data Analytics** *LEAPS by Analyttica* Issued Jan 2022 Skills: SQL, Tableau, Data Analytics

## Softskills

- Inference, my experience at Netxcell has improved my ability to derive logical conclusions from previous events.
- Detail-oriented, I always pay extra attention to the tiny bits of data because minute changes can make the biggest difference.
- Communication, I can explain complex subjects in simple terms, as seen in my experience as a mentor to juniors and communication with other department