

MOHD HASAN KHAN

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Key Skills

Programming Languages: Python, R, Java, C++

Software and Libraries: Pandas, Numpy, Matplotlib, Seaborn, scikit-learn, Keras, NLP, Tensorflow

Analysis & Visualization: Tableau, Power BI, MS Excel

Cloud/Databases: SQL, Apache Hive, Google Cloud

Projects

Pneumonia Detection And Classification | *Python, Deep Learning, CNN* Jan - May 2024

- Developed a CNN-based system for diagnosing pneumonia using chest X-ray images.
- Achieved high accuracy (92%) in pneumonia detection.
- Designed a simpler model (6 layers) that outperformed existing complex models.
- Utilized image augmentation to increase training data variations and improve model performance.

Game of Thrones Dashboard using Tableau | *Tableau, Excel* June 2024

- Developed a comprehensive Tableau dashboard for Game of Thrones.
- Collected data from Kaggle and cleaned it using Excel.
- Visualized episode details, total episodes, description and IMDb ratings for user exploration.

SQL: Data cleaning on swiggy dataset | *SQL* Jan - Feb 2023

- Prepared data by removing null values, splitting menu categories into main and sub categories, adding a review column based on ratings, and incorporating a budget-type column using cost for two data, facilitating final Exploratory Data Analysis (EDA).

Experience

INSTITUTE OF MATHEMATICS & APPLICATIONS May 2023

Conducted a comprehensive session on Data Analysis using Excel & Covered key aspects including: Bhubaneswar, Odisha

- Covered key aspects including Data Cleaning, Data Visualization, and Pivot Tables.
- Ensured participants learned techniques for handling missing data, removing duplicates, and creating effective visualizations.
- Demonstrated advanced functionalities of pivot tables for summarizing and analyzing data.
- Emphasized practical applications, enabling participants to summarize and analyze complex datasets efficiently.

MACHINE LEARNING INTERN — IIIT BHUBANESWAR Aug 2023 - Nov 2023

PROJECT: Fake News Detection Bhubaneswar, Odisha

- The project used a dataset obtained from Kaggle, which contained real and fake dataset articles.
- I cleaned and preprocessed the data using Python and NLP libraries, and then split it into training and testing sets.
- I trained various machine learning techniques including Naive Bayes, Random Forest, and Neural Network. Achieved an exceptional accuracy rate of 99% in classifying news articles as real or fake

Education

Institute of Mathematics & Applications 2022 – 2024

Master's in Mathematics with Data Science, (ongoing) Bhubaneswar, Odisha

Veer Bahadur Singh Purvanchal University 2018 – 2021

Bachelor's in Mathematics, CGPA 6.1 Jaunpur, Uttar Pradesh

Mount Hermon School 2017

ISC (XII), Aggregate- 61.03% Darjeeling, West Bengal

St. John's School 2015

ICSE (X), Aggregate- 71.25% Jaunpur, Uttar Pradesh

Certifications

- Python (Basic), HackerRank. [Link](#)
- SQL (Basic), HackerRank. [Link](#)
- Data Analysis with Python, IBM. [Link](#)

Positions of Responsibility

Volunteer: At the International Conference on 'Mathematical Analysis & Applications' and 50th Annual Conference of Odisha Mathematical Society at Institute of Mathematics and Applications.