

Mohd Jibran

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CAREER SUMMARY

With 3+ years as a Data Scientist, I focus on building practical solutions. I have experience with Python, Data Analytics, and Machine Learning, and I work to ensure project success. With skills in data engineering, I aim to offer insights that help organizations make informed decisions. I also stay updated on industry trends to apply the latest techniques in my work.

SKILLS & OTHER

Skills: Advanced in SQL and Python, Data Visualization, Data Analytics, Neo4J, Machine Learning, Deep Learning, LLM, Docker, Fast API, Pandas, HTML&CSS, FLASK, Py Spark, Big Data(Hadoop), MS.Excel & Power BI.

Certifications: Python Programming (2021), DA using SPSS (2022), Software Security(2023)& python(2023)

PROFESSIONAL EXPERIENCE

CDAC, Mohali, India

Jun 2022 – Present

Project Engineer (Data Science).

- **Create an early warning system (EWS)** to analyze real-time data and generate automated alerts for suspicious activities or newly discovered vulnerabilities, utilizing Python, Flask, statistics, HTML, and CSS.
- **Developed an interactive Pattern Analytics Engine (PAE)** ML model and dashboard to visualize key threat data insights, enabling security analysts to easily create custom rules for filtering out attackers efficiently.
- Improved an ETL pipeline to extract streaming data from **Elasticsearch efficiently**, transform it, and publish it to MISP as events, enabling instant threat monitoring with **80% faster** performance than the previous pipeline.
- Designed a structured database architecture for clustering and EWS ensuring efficient storage, retrieval, and management of large-scale data to support analysis and significantly enhance overall system performance
- **Developed a secure API** to transfer streaming data to user agencies, This API enables authorized users to access threat reports generated by ML models and fine-tuned LLM outputs, enhancing data accessibility.
- Clustering engine to label large unclassified datasets, enabling analysis of previously unclassified data and clustering 60% of unlabeled data, for improving decision-making and providing insights across projects.
- **Fine-tuned large language models** using attacker datasets to identify and classify threat actors, enabling the detection of recurring attackers involved in system breaches, thereby enhancing security measures.

EDUCATION

Dr. Rammanohar Lohia Avadh University, Faizabad, Uttar Pradesh

Jun 2017 – Sept 2021

Bachelor of Technology – Information Technology

- Participated in seminars and webinars on workflow management, entrepreneurship, and sports activities.
- Completed multiple certification courses like Python, JAVA, Data Structure, Machine Learning & DBMS.

CDAC, NOIDA, INDIA

Sept 2021 – Jun 2022

DBDA – PG Diploma in Big Data Analyst

- Achieved an A grade in a 7-month Big Data Analytics program
- Gained expertise in Python, Big Data, Machine Learning, PySpark, Statistics, DBMS, and Shell Scripting.

PROJECTS

Portfolio [Profile Link](#)

Jan 2023 – Mar 2023

- Made an interactive portfolio to present my technical expertise and professional journey, featuring skills in Python, Data Science, Machine Learning, Deep Learning and Web Development.
- Technologies used: HTML & CSS for the front-end design, Python and Flask for back-end development, JavaScript for interactivity, machine learning for advanced functionality, and docker for deployment.

DBDA Final Project

Mar 2022 – May 2022

Image caption generation (DL)

- This project aims to develop a deep learning model that generates highly descriptive image captions, combining CNN for visual feature extraction with LSTM to create accurate and coherent captions.
- Technologies used: Python is used for scripting, data preparation, cleaning, web scraping for dataset collection, CNN is used for image processing, and LSTM is used for sequence generation and captioning.