Tushar Basak

Post Graduate | Department of Computer Science

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ACADEMIC QUALIFICATIONS

Year	Degree	Institute	Performance (CGPA)
2021 - 2023	MCA	Manipal University Jaipur	8.92 /10.0

WORK EXPERIENCE

Data Engineering Trainee, MedTourEasy

(May'23-June'23)

Mentor: Ankit Hasija (Training Head)

Objective	 Complete a self-paced 4-week Data Engineering Traineeship. Master fundamental skills in Data Engineering, including data ecosystem and lifecycle, Python programming, ETL, SQL, and relational databases. 	
Apporoach	 Engage in a combination of theoretical and hands-on learning. Collaborate with Coursera course "Data Engineering Foundations" by IBM. Work on projects incorporating various data formats, ETL processes, APIs, webscraping, and SQL. 	
Outcome	 Demonstrated mastery of fundamental Data Engineering skills. Proficiency in Python programming, data manipulation, and querying real-world datasets. Ability to tackle foundational Data Engineering challenges and projects. 	

KEY PROJECTS

Real-Time Stock Market Data Processing Engine (Manipal University Jaipur)

(April'23-June'23)

Objective	Develop real-time data processing and analysis using Apache Kafka and AWS services.
Approach	Implemented Python-based mechanism for data extraction. Established continuous data stream with Apache Kafka . Utilized AWS S3 , Glue Crawler , and Athena for efficient storage and querying.
Outcome	Successful real-time data processing and analysis. Seamless data exploration. Enhanced expertise in Apache Kafka and AWS services.

Analysis of Chemical Components () (MedTourEasy)

(May'23-June'23)

Objective	Develop content-based recommendation system for cosmetic products.	
Approach	Data preprocessing, NLP, t-SNE for dimensionality reduction, interactive Bokeh visualizations.	
Outcome	 Personalized cosmetic product recommendations based on ingredient similarities. Enhanced shopping experience. Gained data engineering skills in preprocessing, NLP, and visualization. 	

POSITIONS OF RESPONSIBILITY

City President, BloodConnect Foundation

(Apr'23-Dec'23)

Leadership	 Spearheading 2-tier team of 20+ students to foster and promote a noble cause initiative. Efficiently managing a budget of INR 2.5 lpa for events, overseeing seamless reimbursement procedures
Initiatives	• Improved helpline process, implementing procedures for enhanced response time and customer satisfaction.
Impact	 Organized 20+ blood donation camps, collecting 1K+ units of blood, and impacting 3K+ lives in Kanpur. Encouraged and inspired the campus community to actively participate in saving lives through blood donation.

EXTRA ACADEMIC ACTIVITIES

- Office Bearer with the Portfolio of Cultural Coordinator.
- Seminar topic: In-Memory Data Management.
- Specialized in both Open Source Database Systems and Cloud Database Systems as elective subjects.
- Proficient in English language skills, as demonstrated by EFSET certification. <u>View</u>
- Completed a specialization in **Data Engineering** on Coursera. *View*
- Participated in the Cloud Security Challenge up to Level 3 on the Google Cloud Platform. View

SKILLS

Languages: Python, and SQL.

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn and Apache Hadoop.

Databases: SQL (PostgreSQL and T-SQL), Apache Hive and Amazon S3.

Dev Tools: Jupyter Notebooks, Excel, Tableau, Power BI, Docker and Kubernetes.