Sehar Aejaz

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Career Profile

Master of Data Science student at Deakin University with a solid foundation in computer science and experience in data science and software development. Demonstrated expertise in data processing, statistical analysis, and AI applications through academic projects and internships. Actively involved in leveraging AI technologies for real-world problem-solving and innovation.

Education

Euucation	
02/2024 – Current	 Master of Data Science Deakin University, Burwood Expected completion date: 11/2025. WAM: 84.
08/2019 - 06/2023	 Bachelor of Technology, Computer Science Engineering National Institute of Technology Srinagar, Srinagar, J&K, India CGPA: 9.126/10.
	Employment
12/2021 – 03/2022	 Data Science Research Intern IIT Kharagpur, West Bengal, India Developed a web crawler to scrape data from Capterra <u>Github Repository</u>. Processed large unstructured data sets containing B2B reviews. Performed topic modeling of the clean data set for vectorization using LDA which showed a total of 5 factors (Topic_0- User Interface, Topic_1- Channel Management, Topic_2- Revenue Management, Topic_3- Guest Management, and Topic_4- Customer Support). Performed sentiment and importance analysis on individual reviews and factors: Identified Topic_0 as the most important (24.3% mentions) and positively rated (24.8% of positive reviews), indicating high customer satisfaction. Highlighted Topic_2 as the least important (14.3% mentions) and negatively rated (15.03% of negative reviews), reflecting customer dissatisfaction. Conducted in-depth group-level analysis of the identified factors to derive actionable insights. <u>Github Repository</u>.
01/2023 - 05/2023	 Cyber Security Intern NIT Srinagar, India Designed and implemented CRC encoding and decoding for error detection.

	• Developed secure binary-to-decimal data transformation methods.
	• Applied polynomial evaluation for vector transformations and
	 Created chaff point generation for enhanced data obfuscation
	 Verified data integrity through encryption and decryption processes, achieving approximately 90% successful decryption rate. <u>Github Repository</u>. Key Achievement: Successfully implemented a system that combines the advantages of both traditional cryptosystem and biometric systems. A paper titled "A Deep Iris Biometric Template Protection with Two-Ways BioCryptosystem Approaches" is currently being written.
09/2024 – Present	Priority Students Mentor - Deakin University Burwood Melbourne Victoria
	 Responded to a wide range of student queries, offering clear guidance on academic and administrative matters to enhance their university experience.
	 Proactively contacted students to check on their well-being and academic progress, ensuring they felt supported in their studies. Collaborated with university departments to resolve student issues
	efficiently, coordinating resources and referrals when necessary.
	• Documented all interactions in the system, maintaining accurate records to track student needs and ensure continuity of support across teams.
	Personal Projects

- Wine Quality Analysis and Prediction (R): Utilized R to analyze wine quality datasets and build predictive models to determine the quality of wine based on quality attributes <u>GitHub Repository</u>.
- Hate Speech Detection (ML Python): Preprocessed raw datasets and implemented a Decision Tree Classifier to detect and classify hate speech effectively <u>GitHub Repository</u>.
- **Robot Dodge Game** using C# <u>GitHub Repository</u>.
- Grocery Website using HTML <u>GitHub Repository</u>.
- **Banking System** using C# <u>GitHub Repository</u>.
- Panic Room Game using C# <u>GitHub Repository</u>.
- Weather Road Safety Analysis (R): Developed a model predicting road accident likelihood based on weather conditions, helping to anticipate trends and implement preventive measures- <u>GitHub</u> <u>Repository</u>.
- Additional Projects: Developed games including Flappy Bird (using Pygame library), Blackjack, Tic Tac Toe, and Hangman (using Python). Solved complex mathematical and logical reasoning problems on online coding platforms.

Skills

C++, Python, R, C, C#, HTML, Java, SQL, CSS

Volunteer Experience

Member of Creativity and Event Management team TEDxPoloview Event, NIT Srinagar