

Urooj Abdel Halim

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EDUCATION

NED University of Engineering and Technology	Karachi, Pakistan
<i>ME Computer network and system security</i> Cumulative GPA: 3.66/4.00	2023
• Major in cyber security and Stochastic processes and Network Development	
<i>BE Computer System</i>	2020

PROJECTS

Sentimental analysis of Student Feedback:

- Performed Sentiment analysis using NLP and machine learning techniques to determine the polarity of the feedback obtained from students to improve teaching and learning.
- Evaluated the effectiveness of various feature extraction and word embedding techniques and performed a comparative analysis between machine learning models and deep learning architecture for sentiment analysis of student feedback on teachers.
- Tested different vector sizes for different word embeddings in deep learning architecture and found that a cascaded style CNN with an LSTM architecture provided the highest accuracy of 91.27%.

Customer-Segmentation:

- Conducted exploratory data analysis to gain business insights into monthly product sales and customer spending habits.
- Utilized data visualization tools to communicate key findings to stakeholders and developed customer segmentation analysis to reduce marketing risk and increase efficiency.
- Made data-driven marketing recommendations based on customer segmentation analysis and achieved the expected outcomes of the project.

Fake News Detection:

- Utilized Multinomial Naive Bayes, Support Vector Machine (LinearSVC), and PassiveAgressiveClassifier classifiers to classify news articles as fake or real.
- Conducted a comparative analysis of vectorizers and classifiers to optimize classification performance and employed an ensemble model using the scikit-learn max voting classifier to improve classification accuracy.
- Achieved a final accuracy of 0.9340028694404591 using an ensemble method that combined the predictions of the three classifiers.

Other projects:

- Online school system • E-commerce website • Home automation • Electronic voting system • Sequence detector • Database for water level detector • Autonomous Vacuum cleaner • Simon game

LEADERSHIP EXPERIENCE

FINAL YEAR PROJECT

<i>Team Lead</i>	2020
• Built an autonomous vacuum cleaner that initially went around to all corners of the room by selecting the left corner first to map its surface and then moved in S- direction to cover the entire room.	
• It was written in python language and implemented the S-shape and L-shape algorithm.	
• It had dust sucking as well as an obstacle detection feature which helped it navigate around obstacles.	

SKILLS

Language: C++, Python, SQL	Certification: Seo certified	Tools: Tableau, Excel, Pandas,
Framework: Express.js, React	(HubSpot)	NumPy, Scikit-learn, NLTK
Database: MySQL, Mongo dB		