SALAH UD DIN ADIL

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI) — Topi, PK
Bachelor of Science in Artificial Intelligence — 2020 – 2024

LEADER EXPERIENCE

Institute of Electrical and Electronics Engineers GIK Student Branch — Topi, PK
Senior Member — 2020 – 2024
- Led a team of 50 members to persuade and accommodate more than 200 participants to attend a national event National Electronics Olympiad (NEO) in GIKI.
- Headed the Sponsorship team and raised funds worth 2500 Dollars.

PROFESSIONAL EXPERIENCE

Indus Trading Company Ltd. — Gujranwala, PK
Management Intern — 2022 – 2022
- Conducted daily inventory counts of raw materials and spare parts and collaborated with cross-functional teams to ensure smooth operations. Completed tasks on time and collaborated with team members.
- Achieved a 95% customer satisfaction rate by providing exceptional customer service to an average of 50 customers daily.

ACADEMIC PROJECTS

Music Generation using RNN
- Developed a recurrent neural network with LSTM to generate music with 95% accuracy, using a dataset of over 5000 melodies to fine-tune the model and produce compositions that resemble human-composed music.

Text Prediction using RNN
- Implemented a recurrent neural network with LSTM that achieved 75% accuracy in generating grammatically correct and coherent sentences from a sequence of previous sentences. Trained the model using a dataset of over 10,000 sentences.

Inventory Management System
- Created an Inventory Management System using *C#* and *PL/SQL* with a graphical user interface on Windows Forms that increased efficiency by 35%, utilizing Oracle Database.

Transaction Model
- Implemented a transaction model using *C++* programming language and Data Structures such as Graphs and Linked Lists.

Chess Game
- Accomplished 100% completion in creating a chess game utilizing *C++* programming language and *SFML* Library as part of a project goal.

Principal Component Analysis
- Applied Principal Component Analysis in Python to reduce the dimensionality of land-sat images of Kalabagh Damsite. Increased computation efficiency by 90%, resulting in 20x faster testing while retaining 95% of the original information.

Modifying and adding Functionality to xv6
- Improved the functionality of 'ls' and 'cat' commands by adding the -n feature. Optimized the block cache to eliminate the need for acquire loop iterations on all locks in bcache, resulting in faster performance.

Simulation of Arithmetic Logic unit (ALU)

● Simulated ALU using *Verilog* and the concepts of behavioral modelling on XILINIX design suite

SKILLS -

Skills: Python (NumPy, Pandas, SKLearn, TensorFlow, matplotlib, seaborn, Plotly, NLTK, OpenCV), Artificial Intelligence (Machine Learning, Deep Neural Networks, Reinforcement Learning, Computer Vision, Natural Language Processing), C/C++ (SFML, OS programming), Databases(MYSQL, MongoDB), Verilog, HTML, CSS.