Rida S. Malik

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EDUCATION

Ghulam Ishaq Khan Institute of Engineering Sciences and Technology   **Topi, KPK**

B.S. in Cyber Security   *Expected Graduation, June 2027*

- o **Related Coursework:** Object-Oriented Programming, Statistics and Probability, Differential equations and linear algebra

EXPERIENCE

10x Engineers   **Lahore, Punjab**

Intern   *July 2023 – Oct 2023*

- RISC V Hackathon Leadership: Orchestrated the RISC V Hackathon, driving hands-on training with open-source RISC-V tools, significantly enhancing participant expertise and engagement.
- Creative Design: Crafted compelling event posters and merchandise, boosting event visibility and brand identity.
- Leave Management Optimization: Engineered a centralized database for managing over 200 employee leave requests annually, improving approval timelines and policy adherence by 20%.

UDAARI (Student-Led NGO)   **Pakistan**

Director IT   *Jan 2020 – Oct 2022*

- IT Operations Management: Directed comprehensive IT operations, including social media management, email systems, and registration processes, leveraging technology to advance organizational goals.
- Digital Outreach Enhancement: Implemented targeted social media and email strategies, significantly increasing digital engagement and outreach.
- Registration Process Improvement: Designed and managed registration forms, streamlining participant onboarding and ensuring a seamless experience.
- Technology Integration: Deployed innovative IT solutions to enhance operational efficiency and support the NGO's mission.

PROJECTS

Responsive Website for highschool Sports festival   *Nov 2022*

Developed a responsive website for a sports festival using HTML (49.7%), CSS (27.3%), JavaScript (20.6%), SCSS (2.4%), and Bootstrap.

- **Responsive Design**: Utilized Bootstrap for seamless adaptation across devices.
- **Interactive Features**: Implemented JavaScript for dynamic event countdowns, registration forms, and real-time updates.
- **Custom Styling**: Applied SCSS for modular and modern design.
- **User Experience**: Ensured intuitive navigation and accessibility with HTML and CSS.

ASCII Art BlackJack Game

April 2024 – May 2024

Developed a console-based Blackjack game in C++ utilizing Object-Oriented Programming (OOP) principles and ASCII art for visual representation.

- Design: Implemented OOP concepts including classes and inheritance to model game elements such as cards, deck, and players.
- Features: Created a fully functional Blackjack game with ASCII art for card display and user interface. Included features for dealing cards, player decisions (hit, stand), and dealer logic.
- Gameplay: Implemented game rules, scoring, and basic AI for the dealer. Provided clear ASCII-based feedback for player actions and game results.

Crime Forecasting model *April 2024 – May 2024*

Developed a Random Forest classifier to predict major crime types in Toronto using data from 2014 to 2019. Utilized pandas for preprocessing and scikit-learn for modeling.

- Preprocessing: Cleaned and encoded categorical features with numeric and OneHot encoding. Managed a dataset with no missing values.
- Modeling: Compared models with numeric encoding, OneHot encoding, and balanced class weights.
- Evaluation: Assessed performance using accuracy, confusion matrix, and classification report, achieving a high F1-score.

ACTIVITIES AND LEADERSHIP

Team Swift (UAV Team) **Topi, KPK**
Member: Fabrication, Sponsorship, and Automation *Sept 2023 – Current*
- Contributed to drone and plane fabrication, focusing on automation with YOLO, pymavlink, and dronekit.
- Team Swift placed 7th internationally in the 2024 SUAS competition; represented the team at the event.
- Team Lead for SUAS and UAS PK FRR 2025

Netronix **Topi, KPK**
Member *Sept 2023 – Current*
- Developed the front-end of the event webpage for Netronix, enhancing the user experience for the dynamic gaming and networking society.

AIESEC in GIKI **Topi, KPK**
Sept 2023 – Current
Onsite Participant, Rising Leaders Summit *Nov 2023*
- Actively engaged in the Rising Leaders Summit, contributing to discussions and leadership development.
Director, Application Analysis (Spring Recruitment '24) *Jan 2024*
- Led application analysis for the Spring 2024 recruitment, ensuring a thorough and equitable selection process
BD : Director CRM and Alumni *Jan 2024 - July 2024*
- Overseeing CRM and alumni relations, strengthening connections and fostering growth within the AIESEC network.

SKILLS

Programming: Python, JavaScript, HTML/CSS, SQL, Node.js, React.js, MATLAB, C++,pandas,Matplotlib,NumPy
Tools: Visual studio, PyCharm, Jupyter Notebooks, Git, Bootstrap,Wireshark,Nmap,Metasploit,Linux(ubuntu,kali,arch,parrot)

Courses/Certificates

- Mathematics for Machine Learning: Linear Algebra *Imperial College London*
- CS50: Cyber Security *Harvard*
- Dynamic Web Programming *TutorBees*
- Introduction To CyberSecurity Cisco Skills For all *Cisco Skills For all*
- Ethical Hacking *Cisco Skills For all*

Volunteering

Hillsdale County Medical Care Facility **Hillsdale,MI**
Activities Department *Aug 2019*

Medilodge of Marshal **Marshal,MI**
Activities Department *Aug 2019*

Hillsdale County Medical Care Facility **Lahore**
Event Management *March 2022*

Women Engineering Society **Topi, KPK**
Sept 2023-April 2024