Muhammed Ahmed

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EDUCATION

Ghulam Ishaq Khan Institute Of Engineering and Technology   Topi, KPK, PK
Bachelor of Science in Computer Engineering   *Aug. 2020 – May 2024*
- CGPA : 3.12 / 4.00

EXPERIENCE

Embedded Software Engineer   July 2024 – Sep 2024
Software Motion   *remote, Suzhou, China*
- **Developed and optimized scripts** for running SWCs on MDC board, Enhancing system performance.
- Streamlined testing processes, cutting execution time for SWCs with efficient script commands.
- Researched and implemented optimal management methods for repositories, ensuring efficient **version control**.

Software Engineer Intern   July 2023 – August 2023
OneByte LLC   *Lahore, Pakistan*
- Collaborated with a team to develop a therapy chatbot website, focusing on using **React** and **Node.js**.
- Integrated **Firebase** for real-time database, ensuring secure user authentication and data management.
- Gained hands-on experience in collaborative web development, enhancing problem-solving and teamwork skills.

Event Coordinator   Aug. 2023 – May. 2024
Institute of Engineering and Technology - GIKI Chapter   *Topi, Pakistan*
- Coordinated Giki Innovation Summit (GIS) national event and led team of **80+ students**.
- **Registered 100+ student**s, facilitated through liaison drives and promotional activities.
- Secured **200,000 PKR sponsorship**, initiating dialogues with multiple companies.

FINAL YEAR PROJECT

Early Stage Skin cancer Detection | *Python, Flask, React,*   Jan 2024 – April 2024
- Built a full-stack web app for early-stage skin cancer detection using **Flask** and **React**.
- Conducted a literature review to inform design and refined the dataset with **advanced preprocessing**.
- Achieved **94% accuracy** in lesion classification using **DenseNet-201** on a custom dataset provided by ISIC.

PROJECTS

Online Therapy Chatbot (physecpilot) | *JavaScript, Node.js, React, Firebase, Pinecone, ChatGPT APIs*
- Developed a therapy chatbot using a three-tier architecture with **React.js, Node.js**, and **Firebase/Pinecone**   .
- Implemented HTTPS encryption and **Firebase Authentication** for secure user access and chat log storage.

Walmart Sales Prediction Web Application | *TensorFlow, Python, Flask, JavaScript,CSS , HTML, Chart.js*
- Developed a **Flask app** that predicts Walmart sales using a **pre-trained ML model**.
- Integrated **Chart.js** to visualize inventory data by store and department, enhancing user insights.
- Implemented email functionality for automated delivery of prediction results.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS.
Frameworks: React, Node.js, Flask.
Familiar Databases: PostgreSQL, MySQL, MongoDB, Firebase, Firestore, Pinecone.
Developer Tools: Git, Docker, Postman, AWS, VS Code, Visual Studio, PyCharm.
Libraries: Pandas, NumPy, Matplotlib, Tensorflow, Bootstarp

SOFT SKILLS

Communication, Leadership, Teamwork, Adaptability, Resilience, Networking