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EDUCATION

UET Lahore

BS in Computer Science

Lahore, PK

May 2020 – May 2024

Relevant Coursework: Software Engineering, Software Design Patterns, Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision & Image Processing, Information Security & Databases

WORK EXPERIENCE

Software Engineer (Full-Time)

HeuristicSol

Lahore, PK

May 2024 – Ongoing

- Expertise in front-end development using React.js, Next.js, TypeScript, Tailwind, and back-end with Node.js and MongoDB.
- Contributed to different AI-Integrated Web projects, developing authentication modules, responsive user interfaces, and secure user interfaces using Redux, JWT, OTP services and Formik.
- Implemented advanced AI techniques such as RAG and LLM (Claude, Llama 3) for chatbots, BERT for property classification, and models like GANs, LSTM, and regression to enhance prediction accuracy.
- Delivered secure and scalable solutions by leveraging cutting-edge React libraries and modern frontend technologies.

Associate Software Engineer – Frontend Development

Lahore, PK

InspireX Solutions.

August 2023 – May 2024

- Contributed to the design & enhancement of front-end interfaces to deliver intuitive user experiences, and efficiently resolved client issues through proactive ticket management and collaboration.

Deep Learning Engineer (Intern)

Lahore, PK

Al-Khawarizmi Institute of Computer Science, (KICS)

July 2023

- Contributed to the development and enhancement of AI-driven features using Graph Embedding techniques and Neural Networks
- Facilitating the identification of Future Links in network structures to optimize product performance.

SKILLS & TECHNICAL PROJECTS

Languages: C++, HTML, CSS, JavaScript, Tailwind, Typescript, Python

Specialization: React, Next.js, Node.js, Express.js, Flask, Figma, Matlab, Bubble.io, WordPress, Bootstrap, Proteus, Machine Learning, Deep Learning, NLP, REST API, Jira, Git-hub

Bitvision - Tweet based Bitcoin Trend Prediction | Deep Learning, NLP | Final Year Project

- Developed a predictive model leveraging real-time Twitter data and neural network-driven sentiment analysis to forecast Bitcoin price trends and integrated in real-world mobile-app. Integrated social media data by collecting and preprocessing real-time Twitter feeds related to Bitcoin discussions, extracting key features and sentiments through sentiment analysis.

- Contributed to research in cryptocurrency analysis and sentiment analysis, documenting methodologies and findings for future exploration in this interdisciplinary field.

Neurolexia | React.js, Machine Learning, Computer Vision & Image Processing

- Developed NeuroLexia, Asia's first comprehensive platform for the early detection and intervention of dyslexia, integrating EEG-based detection, handwriting analysis, and interactive gaming activities. Utilized EEG to monitor brain activity patterns indicative of dyslexia, achieving an exceptional F1 score of 97% for accurate detection.
- Aimed to transform educational experiences for individuals with dyslexia, offering potential long-term benefits for their academic and personal growth.
- Collaborated with GINUM (Pakistan Atomic Energy Commission) to gather a dataset of EEG scans for model training.

AI Based Real Estate Property Management System | Figma, React.js, Node.js, MERN

- Developed an AI-powered platform for real estate property investment, utilizing Figma for UI/UX design and React.js for a dynamic, user-friendly front-end interface. Applied various machine learning algorithms to provide intelligent property investment recommendations based on market trends, user preferences, and predictive analytics.
- Created a comprehensive system that helps investors make informed decisions by combining real-time data analysis with AI-driven insights for better property investment outcomes.

AscentBot | Platform Expert & Support Chatbot | React.js, Node.js, NLP, LLM

- Developed AscentBot, a platform expert and support chatbot. Implemented Natural Language Processing (NLP) and Large Language Models (LLM) to enable the chatbot to understand and respond to user queries accurately, providing seamless customer support and expert guidance.

Real-time Emotion Detection System | Computer Vision, Machine Learning, AI

- Built a real-time emotion detection system using computer vision techniques and machine learning algorithms. Integrated AI to improve accuracy, enabling the system to provide instant emotional feedback based on image or live video inputs.

Mental Health Prediction| React.js, Machine Learning, Artificial Intelligence

- Developed an intelligent web application for mental health prediction using React.js for an interactive user interface and integrated machine learning models. Implemented AI algorithms to enhance prediction accuracy and deliver personalized mental health assessments.

EXTRA-CARRICULAR EXPERIENCES

Google Developers Group Member | GDG Lahore | 2023

Lahore, PK

- Active member of Google Developers Group (GDG) Lahore, 2023, participating in community-driven tech events, workshops, and networking sessions to stay updated on the latest Google technologies and industry trends.

IT Manager | Hult Prize | 2022-23

Pakistan

- Served as IT Manager and Public Relations Officer for the Hult Prize (2022-23), managing technical operations, ensuring smooth event execution, and building strong relationships with stakeholders to promote the initiative effectively.

Volunteer | Future Fest 2024 | Ejad Labs

Expo Center Lahore, PK

- Volunteered at Future Fest 2024, organized by Ejad Labs at Expo Center Lahore, contributing to event coordination, attendee management, and ensuring a seamless experience for participants at one of Pakistan's premier tech events.

HONORS & AWARDS

- **President | CODATOR | Society of Computer Science & Engineering| 2023-24 :**

Served as President of CODATOR, the Society of Computer Science & Engineering, leading initiatives to foster innovation, organize tech events and programming hackathons, and create opportunities for student engagement in cutting-edge technologies and research.

- **Achievements:**

- Designed the Logo for “National Center of Quantum Computing (NCQC), Pakistan”
- First prize in Departmental Chess Competition & Sports-Gala Chess Competition (UET, 2022)
- Multiple Merit Scholarships throughout education
- Represented university in ITEC Final Year Project Exhibition, receiving an honorary certificate.

References Available on Request.