Muhammad Noman

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Education

Iqra University	**May.2021 – Jan 2025**

Bachelors in Computer Science (3.65 CGPA)
Karachi, Sindh

Relevant Coursework

- Data Structure
- Algorithm Analysis
- Artificial Intelligence
- Natural Language Processing
- Software Methodology
- System Programming
- Database Management System
- Information Security
- Web Programming Languages
- Deep Learning
- Data Science
- Internet Of Things (IoT)

Experience

Convsync. Co   **May 2024 – Present**
Senior C Developer/Full Stack Developer and DevOps Engineer
- React, Angular and Next.js Development and maintained web applications using modern frameworks, ensuring responsive and dynamic user interfaces.
- Built Java, Node.JS & Express server-side applications and APIs, optimizing performance and scalability.
- Worked as C Language Development in which I do low-level programming tasks and system-level
- Applied Python for various tasks, including scripting, automation, and data processing.

Meriti. Inc   **April 2024 – Sep 2024**
AI Developer and Deep Learning Specialist
- Developed loss functions for model optimization.
- Worked on image segmentation and classification tasks.
- Hands-on experience in NLP and Computer Vision techniques, including data preprocessing and algorithm evaluation, gained through freelance projects.

Upwork. Inc   **May.2023 – Present**
Web and AI developer
- Collaborated on WordPress development projects on Upwork, focusing on website customization and plugin integration.
- Contributed to freelance Natural Language Processing (NLP) initiatives, specializing in data preprocessing and model development.
- Proficient in WordPress theme customization, plugin integration, and client communication.
- Hands-on experience in NLP techniques, including data preprocessing and algorithm evaluation, gained through freelance projects.

Projects

Sky Water Inc | *Java, Angular, Spring Boor,, DevOps, Microsoft Azure*   **June 2024 – Sep 2024**
- Led the migration of legacy C language code to a modern tech stack using Java Spring Boot for backend development and Angular for the frontend, ensuring improved performance and maintainability.
- Streamlined critical processes within semiconductor manufacturing workflows by modernizing outdated software systems for enhanced scalability and integration.
- Collaborated with cross-functional teams to align the updated systems with SkyWater's semiconductor fabrication processes and customer requirements.
- Delivered a robust and efficient software solution tailored to support SkyWater's role as a leading semiconductor chip foundry.

Dermatologist Chatbot | *Python, Computer Vision, NLP, VIT, Llama, Google Cloud* **June 2024 – Sep 2024**
- Developed a sophisticated dermatologist chatbot using a multimodal RAG (Retrieval-Augmented Generation) model to analyze skin diseases.
- Implemented Vision Transformer (VIT) for advanced computer vision tasks to accurately identify and diagnose skin conditions from images.
- Integrated Llama model for detailed treatment recommendations and analysis of environmental factors affecting skin health.
- Designed a comprehensive report analysis feature and provided personalized treatment recommendations based on user input and environmental data.

Urdu YouTube Videos Chatbot | *Python, NLP, Neural Network, Google Cloud* **Jan 2024 – Feb 2024**
- Created a chatbot capable of interacting with users about content from any given Urdu YouTube video.
- Implemented NLP techniques to understand and generate responses based on video content, allowing users to chat and ask questions about the video.
- Utilized YouTube API and Google Cloud services for video content extraction and real-time interaction, enhancing user engagement with Urdu language content.

Medicine & Doctor Appointment Platform| *Python, NLP, Neural Network, Google Cloud* **March 2024 – June 2024**
- Developed a comprehensive website for ordering medicine and scheduling doctor appointments using Next.js for the frontend and Express for the backend.
- Integrated advanced NLP techniques to create a Knowledge Graph-based virtual doctor for providing medical information and answering user queries.
- Implemented user-friendly features for medicine ordering, doctor appointment scheduling, and real-time interactions with the virtual doctor.

Auto Code Correction of Python | *Python, NLP, Neural Network, Google Cloud* **Jan.2024 – Jan 2024**
- Implements automatic code correction using the CodeBERT model (Microsoft/codebert-base).
- Utilizes Roberta Tokenizer to preprocess Python code by tokenizing it for model input.
- Applies masking to simulate missing or erroneous code elements and predicts replacements using RobertaForMaskedLM.

LughaatNLP Library | *Python, NLP, Neural Network, Google Cloud* **Dec.2023 – Jan 2024**
- Specialized library for Urdu language preprocessing tasks in NLP applications.
- Offers comprehensive tools for tokenization, lemmatization, stop word removal, normalization, stemming, spell checking, POS tagging, and named entity recognition.
- Designed for easy integration into Python scripts to facilitate efficient Urdu text preprocessing.
- Future roadmap includes enhancements like Urdu language translation, chatbot models, and text summarization.

Technical Skills

- **Languages:** Python, Java, C, C++, Rust, HTML/CSS, JavaScript, SQL
- **Development Tools:** VS Code, Jupyter, PowerBI, Microsoft Azure, Git/GitHub, Google CloudPlatform
- **Technologies/Frameworks:** ReactJS, NextJS, DevOps, CI/CD pipeline, sci-Learn, PyTorch, LangChain, CrewAI, StormAI, Flask, Django, Twilio, TensorFlow, Keras, BeautifulSoup, Java Spring

Leadership / Extracurricular

YouTuber **May.2023 – Present**
- Conducted computer science courses and project tutorials for classmates and others on YouTube.
- Provided free educational content to support community learning and growth.