

Umar Waheed

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Education

FAST NUCES

Bachelor of Software Engineering.

Islamabad, Pakistan

2020 - 2024

Relevant Coursework: Artificial Intelligence, Natural Language Processing, Data Mining, DB, OS, Design and analysis of Algorithms, PF, OOP, SE, Ethical Hacking, Data Structures, Software Design & Architecture (Java), Software Quality Engineering, Web Engineering

Sceptre College

F.S.C (pre-engineering)

Gujrat, Pakistan

August 2018 – July 2020

Experience

Lab Demonstrator

FAST NUCES

Islamabad, Pakistan

Jan 2023-June 2023

- Strong understanding of Object-Oriented Programming (OOP) languages and concepts.
- Proficient in implementing OOP principles such as classes, objects, inheritance, polymorphism.
- Effective verbal and written communication abilities.
- Capable of explaining complex programming concepts in a clear way.

Projects

Final Year Project – ARealm | Unity AR| AWS| AI

- Created a Unity-based augmented reality app.
- Implemented features such as face recognition, OCR, and indoor navigation.
- Developed a multilingual voice chatbot supporting Urdu language for enhanced user interaction.

Rag based chatbot in Urdu | Python| Chromadb| MiniLLM

- Developed a chatbot in Urdu using Rag, Python, Chromadb, and miniLLM.
- Implemented natural language processing capabilities for conversational interaction.
- Integrated with Chromadb for web scraping and data retrieval.
- Leveraged Python libraries for efficient programming and functionality.

Automated bot for gameplay | Python | Neural networks

- Created an automated gameplay bot using Python and Neural Networks.
- Developed AI algorithms to enable adaptive decision-making during gameplay.
- Implemented neural network models for learning and optimizing bot strategies.

Realistic Voice Synthesis using Prosodic Alignment

- Conducted research on Realistic Voice Synthesis using Prosodic Alignment.
- Explored methods to enhance voice synthesis by aligning prosodic features with natural speech patterns.

Skills

Technical: Artificial Intelligence, Machine Learning, Natural language processing, Java, HTML/CSS, Python, C/C++, JavaScript, React Js, Node Js, Database systems, AWS, Unity

Professional: Good Communication, Problem Solving, Innovation, Adjusting to new development tools, Team Player