Sarim U. Khan

📞 +92 334 031 9136   ✉ sarim.uk@outlook.com   in linkedin.com/in/sarimuk   ⚲ github.com/Sarim-uk

Education

FAST NUCES   Expected May 2025
Bachelor of Science in Computer Science (GPA: 3.2 / 4.00)   *Karachi, Pakistan*
- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat in CS (Python), Software Engineering, Database Management Systems, Deep Learning, Artificial Intelligence, Recommender Systems

Experience

Techwards   Nov 2024 – Present
Associate Software Engineer   *Karachi, Pakistan - On Site*
- **Developed and optimized RESTful APIs** using Django Rest Framework (DRF), **improving backend efficiency and scalability**. This **reduced response times by 30%** and ensured seamless data exchange between services.
- **Automated workflow processes** by integrating Camunda 7 with Kestra, eliminating manual interventions and **streamlining task execution**, which **improved operational efficiency by 40%.**
- **Built a robust testing framework** using Pytest, **implementing unit and integration tests** that significantly **improved system reliability and reduced failure rates.**
- Worked closely with cross-functional teams to translate complex business requirements into scalable backend solutions, ensuring a seamless user experience.

Nexus Academy UK   Sep 2024 – Present
Product Development Manager   *United Kingdom - Remote*
- **Designed and developed** an AI-powered video chat application for online tutoring, integrating real-time transcription, AI-generated notes, and sentiment analysis, enhancing engagement and accessibility.
- **Leveraged Llama 3.8B on Groq Playground** for live transcription and summarization, improving content retention for students and tutors.
- **Implemented CNN-based emotion detection**, enabling real-time student engagement analysis, which helped tutors adjust their teaching methods for better learning outcomes.

Beats by Dr Dre   Aug 2024 – Oct 2024
Data Analytics and Consumer Insights Intern   *New York, USA - Remote*
- **Extracted and cleaned large-scale consumer review data** from Amazon using APIs, enabling in-depth **sentiment analysis** and **actionable consumer insights**.
- **Applied exploratory data analysis (EDA)** and **conducted sentiment analysis on customer feedback**, identifying areas for product and brand strategy improvements.
- **Utilized advanced natural language processing** tools, including Gemini AI, to interpret and summarize customer feedback.
- **Analyzed large consumer datasets** to uncover key trends, purchasing behaviors, and market opportunities, supporting data-driven decision-making.

Projects

Virtual Knowledge Distillation via Conditional GAN - Research Paper Implementation | *Python, PyTorch, CGANs, matplotib*
Student - Teacher Recommendation System | *Django, DRF, SQLite, Collaborative Filtering, React*
Fingertip Detection and Gesture Recognition | *TensorFlow, OpenCV, ImgAug, Python*
PlAlgiarism | *React, Node.js, Llama3*

Skills

Programming: Python, C, C++, JavaScript, YAML, HTML, CSS, JSON
Web Frameworks: Django, DRF, React, Node.js
QA and Testing: Manual Testing, Test Case Creation, Bug Reporting, Regression Testing, Functional Testing
Databases: PostgreSQL, MySQL, MongoDB
ML/NLP & Computer Vision: TensorFlow, Scikit-Learn, PyTorch, CNNs, RNNs, Transformers, Autoencoders, BERT, GPT, Llama, YOLO, OpenCV, Image Classification, Object Detection
Tools: Git/GitHub, SEO, GroqCloud, Workflow Automation, Docker
Certifications: IBM Data Analytics, OpenAI Prompt Engineering, IBM JavaScript Essentials, IBM Developing Front End Apps with React