Usman Khan

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Education

- **Bachelor of Science in Computer Science**
  Saarland University, Saarbrücken, Germany
  First Semester

- **A Levels (CAIE)**
  Ajyal Al Mareefah International School, Jazan, Saudi Arabia
  Grades: Physics (A), Mathematics (A), Computer Science (A), Chemistry (B)

- **IGCSE (CAIE)**
  Ajyal Al Mareefah International School, Jazan, Saudi Arabia
  Grades: Physics (A*), Mathematics (A*), Chemistry (A*), Biology (A*), English (A*)

Work Experience

School Committee Member
Ajyal Al Mareefah International School

- Coordinated activities and managed student groups to ensure smooth operations.

- Enhanced organizational and leadership skills through event planning and conflict resolution.

Tutor

- Provided personalized learning support to students, improving academic performance.

Projects

- **Fitness-Tracker-ML** (GitHub)
  Developed a system to track exercises using accelerometer and gyroscope data to calculate repetitions.
  Tools: Python, Sensor Data Processing and Analysis

- **Hackathon Winner** (GitHub)
  Built an application to analyze construction blueprints by fine-tuning YOLO v11 and using the Google Gemini API to extract structured data, contributing to our team's hackathon victory.
  Tools: Python, YOLO v11, Google Gemini API

- **SkimLit** (GitHub)
  Developed a deep learning model to improve the readability of research papers by categorizing text into sections like Background, Methods, and Conclusions without altering meaning.
  Tools: Python, TensorFlow, NLP

- **Finsight** (GitHub)
  Built a tool to talk to websites using python langchain groq openai and more
  Tools: Python, LangChain, OpenAI API

- **YouTube Sentiment Analysis** (GitHub)
  Created a system to assess the sentiment of YouTube comments and evaluate video ratings.
  Tools: Python, Transformers

Key Skills

- **Programming**: Python (Data Analysis, APIs, TensorFlow , sklearn , Pytorch, NLP), C++, JavaScript, HTML, CSS
- **Machine Learning**: Deep learning, fine-tuning models, data preprocessing, sensor data analysis
- **Data Analysis**: Pandas, NumPy, API Integration, Data Visualization
- **Soft Skills**: Time Management, Teamwork, Problem-Solving, Detail-Oriented
- **Languages**: Fluent in English and Hindi, A2 in German