AHMED SHEIKH

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GitHub | Portfolio | ORCID

Machine Learning Engineer and AI developer with hands-on experience on software engineering, app development, and data analytics. Skilled in NLP, computer vision, and deep learning. Freelance contributor to multiple projects and builder of practical user-focused AI solutions.

EXPERIENCE

Machine Learning & AI Engineer (Freelance /Remote) **Nairobi, Kenya**
Various Academic & Industry Collaborations *August 2021–Present*

- Developed an LSTM-based Arabic accent classification model to detect ALG, IRA, EGY, and KSA dialects with 72% accuracy using cleaned speech data, including silence/noise removal and text normalization. Project Demo
- Devised MoodReads, an AI-driven book recommender using a BiLSTM–SelfAttention deep learning model (69% accuracy) to map emotional text to book vectors. Project Demo
- Developed a deep learning model (Transformer + BiGRU) trained on the LIAR and ISOT datasets to detect fake news. The system performs NLP preprocessing (tokenization, padding, embeddings) and classifies news as FAKE or REAL with 89% accuracy. Project Demo
- Devised and implemented an English Accent Classifier that extracts audio from video URLs and classifies accents as UK, US, Australian, or New Zealand using the SpeechBrain ECAPA model. The project is currently under development, with promising primary result. Project Demo

Data Analyst (Full-Time) **Jeddah, Saudi Arabia**
Abdulaziz Al-Sorayai Investment Company (ASIC), ICT Department *June 2019 – July 2021*

- Collaborated with the HR department to create SQL-based reports using MariaDB and Power BI, developing weekly dashboards that streamlined reporting and supported data-driven decisions on workforce planning and performance.

Software Developer (Full-Time) **Malaysia, Melaka**
UTeM, Faculty of Information and Communication Technology, Biomedical Computing and Engineering Technologies Applied Research Groups (Biocore Laboratory) *September 2016 – August 2017*

- Developed a comprehensive healthcare information system for UTeM university clinics, later adapted for deployment at Hospital Kuala Lumpur. Led backend and server-side development using JSP and Java, ensuring high system availability and efficient management of large-scale student health records and clinic operations.

EDUCATION

Universiti Teknikal Malaysia Melaka **Malaysia, Melaka**
M.Sc. in Computer Science (Software Engineering and Intelligent) *February 2018 – February 2019*

Universiti Teknikal Malaysia Melaka **Malaysia, Melaka**
B.Sc. in Computer Science (Database Management) *September 2013 – November 2017*

PROJECTS

I designed and developed an interactive math learning web app to help primary school children master basic math such as addition, subtraction, multiplication, and division, through a simple, gamified experience. I integrated quizzes, slides, performance summaries, and feedback features using Next.js and the Gemini API for real-time inference. The first version is live, and I'm actively working on new features and future enhancements. [Project Demo](#)

I built an HR resume analyser using Next.js and the Gemini API to identify candidate strengths and weaknesses, generate tailored interview questions, and export PDF summaries. I enabled faster and more effective shortlisting through interactive visualizations. [Project Demo](#)

ADDITIONAL SKILLS

- **Languages:** Python, Java, JavaScript, C++, C#, PHP
- **Frameworks:** PyTorch, TensorFlow, Scikit-learn, Node.js, Laravel, Vue.js, React.js, Next.js, Laravel
- **Tools & Platforms:** Streamlit, Docker, Git, Firebase, Hugging Face, AWS, Power BI, Tableau
- **Databases:** MYSQL, ORACLE, PostgreSQL, Firebase, MongoDB, AWS Cloud
- **Machine Learning Models:** Transformer, CNN, LSTM

LANGUAGES

Arabic, English

AWARDS AND HONNORS

AUG 2016   Nominated as an outstanding final year project in bachelor's degree

CERTIFICATES

Introduction to Oracle 9i (2018)