AHMED SHEIKH

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GitHub | Website

Machine Learning Engineer and AI researcher with hands-on experience in academic research, 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.

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. App Link

I built an HR resume analyzer 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. App Link

WORK EXPERIENCE

Freelance Machine Learning & AI Engineer (Remote)   **Nairobi, Kenya**
Multiple Academic Institutions   *August 2021–Present*

- 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. Experiment Link
- 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. Experiment Link
- Led advanced research in Arabic handwritten document analysis, applying computer vision methods—specifically region-based segmentation for diacritics, which resulted in a peer-reviewed publication: IJECE 2020.

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

- Collaborated with cross-functional teams to identify key data issues, optimize reports, and enhance business decisions.
- I created SQL-based reports using MariaDB and Power BI to build weekly dashboards. These dashboards helped with regular decision-making and made department reporting faster and more efficient

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

- 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*

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, Somali, Malay, Swahili

AWARDS AND HONNORS

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

CERTIFICATES

Introduction to Oracle 9i (2018)