

Ayamullah Khan

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EDUCATION

Indian Institute of Technology, Madras, Diploma Data Science 2023 – present | India
Manipal University, B.Tech Computer Science 2022 – present | India

SKILLS

Programming Skills: Python, React.js, Next.js, TailwindCSS, SQL, MongoDB

Python Libraries: pandas, numpy, seaborn, matplotlib, scikit-learn, spacy, tensorflow, nltk, uvicorn, fastapi, huggingface, google-generativeai, openai, pymongo, langchain, librosa, scipy, boto3, selenium, bs4, streamlit

Technologies: Generative AI, Machine Learning, Backend Development, API Development, GCP, AWS Bedrock

WORK EXPERIENCE

HYRGPT, Generative AI Intern May 2024 – present | Remote

- **Increased recruitment efficiency by 90%** by working on the production of HYRGPT.
- Built a meeting app using Speaker Diarization and Whisper audio transcription, **boosting efficiency by 70%**
- Orchestrated a resume ranking system using vector search and real-time data with MongoDB as the vector store.
- Built scrapers to extract QnA data for various job roles and implemented a RAG, **reducing OpenAI costs by 60%**

Sultan Qaboos University, AI Research Intern (Student Exchange) Jun 2024 – Aug 2024 | Muscat, Oman

- Developed a Career Recommendation System tailored for intermediate and graduate-level students.
- **Increased career path accuracy by 85%**, ensuring culturally relevant recommendations for Omani students.
- Integrated image generation and the Gemini API to provide personalized career recommendations.

CSIR-IHBT, Research Intern May 2024 – Jun 2024 | India

- Built a full-stack React app for Alzheimer classification with hospital login using Firestore, Realtime Database, and Google Auth.
- **Improved system efficiency by 60%** through the restructuring of the AICOB Lab website.
- Conducted research on Raspberry Pi integration for enhanced app functionality.

Constituents AI, Python Developer Intern Jan 2024 – Feb 2024 | Remote

- Developed an AI email marketing app with Generative AI, **increasing campaign efficiency by 75%**.
- Built an e-commerce scraper with LLM, **boosting data extraction speed by 40%**.
- Enhanced text-to-image stable diffusion **model accuracy by 30%**.

PROJECTS

LeetLingo 📄

- Developed an interview preparation app to improve and measure users' English fluency for tech job interviews.
- Utilized technologies like Librosa, SciPy, OpenAI-Whisper, BERT-based tokenizer, Torch, and Transformers.
- Users are scored from 1 to 10 on Accent, Clarity, Confidence, and Vocabulary.

Google Meet Note Taker 📄

- Developed a meeting note-taker app using Speaker Diarization and Whisper audio transcription, improving efficiency by 70%.
- Implemented Selenium to keep the bot in the meeting for continuous monitoring.
- Utilized a virtual soundcard to capture and transcribe meeting audio in real-time.

Career Recommendation System 📄

- A career recommendation system based on the user's personality and preferences.
- Integrated LLMs and Image APIs to deliver a customized career roadmap.
- Offers actionable steps for pursuing the recommended career, including relevant live job openings.

PUBLICATIONS

PCOS Prediction and Analysis (Ongoing)

- Ongoing research aims to develop an accurate predictive model for PCOS using classical ML techniques.
- The objective includes identifying risk factors, early symptoms, and potential biomarkers to facilitate timely diagnosis and intervention for PCOS.

Indic Accent Classification using MFCC Vector Matching (Ongoing)

- Ongoing research aims to develop a highly accurate accent classification using vector matching.
- Focuses on distinguishing regional accents through Mel-frequency cepstral coefficients (MFCC).
- Current system show 100% accuracy on identifying Punjabi, Assamese, Telugu, Malyalam, Kashmiri, Kannada and Bengali English accents.