Ayamullah Khan

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Education

Indian Institute of Technology, Madras   2023 – present
B.Sc Data Science   Jaipur, India

Manipal University Jaipur   2022 – present
Bachelors in Technology, Data Science   Jaipur, India
  CGPA: 8.87

Skills

Programming Languages: *(Python, Java, MySQL, JavaScript, HTML, CSS)*,
Python Libraries *(pandas, numpy, seaborn, matplotlib, scikit-learn, spacy, tensorflow, nltk, uvicorn, openai, bardapi, huggingface, google.generativeai, openai)*,
Technologies: *(AI, Machine Learning, Deep Learning, Web Development, API Development, Generative AI, Computer Vision)*

Professional Experience

Data Science and AI Intern   May 2023 – Jul 2023
HYRGPT (Personifwy) 🔗   Remote
- Worked in production of HYRGPT leading to increase in the **efficiency of candidate recruitment by 90%**.
- Worked with similarity algorithms and modules to match the multiple resumes to a job description, and show their rankings.
- Built APIs for various purpose involving Generative AI, NLP, vector models and analysis and similarity algorithms.

Generative AI Intern   Feb 2024 – Mar 2024
Constituents AI 🔗   Jaipur, India
- Worked on text-to-image stable diffusion models and **increased model accuracy by 30%**.
- Created a dynamic scraper for e-commerce websites, works by extracting product information with LLM integration using Gemini-pro.
- Working on AI Email marketing application that completely revolutionizes the marketing industry with Generative AI.

Machine Learning Intern   Jun 2023 – Aug 2023
Feynn Labs 🔗   Remote
- Worked across teams to analyze and preprocess extensive datasets, ensuring high-quality data for seamless integration into ML pipelines.
- Worked in ML research and deploying cutting-edge deep learning models to **optimize model performance by 20%.**

Projects

Brainy Counsellor 🔗
- Provides a personalized career suggestion based on user's personality type and preferences.
- Gives a Tailored roadmap outlining steps for pursuing the recommended career path.

Scanned PDF to BRF App
- Combined LLM, OCR, and image captioning to convert scanned PDFs into braille-readable format.
- Currently being used by Dell Inc. to enhance accessibility for visually impaired individuals.
- Streamlined process for converting text-heavy documents into braille, improving inclusivity and accessibility.

Awards and Achievements

Dean's List Awardee
  Provided to Students with a GPA over 9.0 in any engineering semester.

6 x Hackathon Finalist
  Dell #HackForHire   (3rd)
  ACM MUJ   (4th, 5th, 4th)
  IEEE MUJ   (2nd, 3rd)

Best Research Paper Awardee (PCOS Prediction)
  Grabbed the Best Research paper award at the 1st International Data Science Symposium organized by ACM at Manipal University Jaipur.

Publications

Dementia Prediction Using CNN and Computer Vision (Ongoing)   Jan 2024
- Utilizes live video streaming to detect and predict dementia early.
- Employing CNN and computer vision, it analyzes real-time video data for cognitive decline markers.
- The approach enhances early diagnosis and management, potentially improving patient outcomes.

PCOS Prediction and Analysis (Ongoing)   Nov 2023
- 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.