Hadia Sultan

LinkedIn: www.linkedin.com/in/hadiasultan
Github: github.com/Hadia381
Preferred Location: Islamabad

Email: hadiasultan30@gmail.com
Mobile: +92-3350439762

Education

- **National University of Computer and Emerging Sciences** — Islamabad, Pakistan
  Bachelors of Artificial Intelligence — *2019 - 2023*
  Courses: *Artificial Intelligence, Machine Learning, Artificial Neural Networks, Knowledge Representation and Reasoning, Natural Language Processing, Computer Vision, Applied Evolutionary Computing, Devops, Machine Learning Operations*

Skills Summary

- **Languages**: Python, PHP, C++, JavaScript, SQL, HTML, Assembly
- **Frameworks**: Scikit, NLTK, SpaCy, TensorFlow, Django, Flask, Streamlit, OpenCv, Transformers, Langchain
- **Tools**: Kubernetes, Docker, GIT, Jenkins, DVC, MlFlow, Apache Airflow, MySQL, SQLite, Anaconda, MongoDB, Visual Code, Eclipse
- **Platforms**: Linux, Web, Windows
- **Soft Skills**: Leadership, Event Management, Technical Writing, Time Management

Experience

- **Artificial Intelligence, Intern**: Annotated the fabrics according to their defects. Prepared a proper dataset and then Developed masked RCNN for the fabric defect detection in Software Productivity Strategists. *Remote, Nov'2023*
- **Technical Blogger**: Posted comprehensive technical blog posts focusing on Tableau, Power BI, web development, and domain hosting. Showcased proficiency in translating complex technical concepts into accessible and engaging content for diverse audiences. Applied SEO strategies to optimize blog posts, resulting in increased website visibility and audience engagement. *July 2023-Oct 2023*
- **Teacher's Assistant** — Onsite
  Discrete Structures — *Aug 2022 - Jan 2023*
- **Lab Demonstrator** — Onsite
  Database Systems — *Feb 2023 - May 2023*

Projects

- **ForesightX (Machine Learning, MLOPS, Web development)**: Implemented a cutting-edge project that leverages advanced machine learning techniques to improve business operations through demand forecasting,personalized recommendation system, fake order prediction, and churn prediction. Collaborated with experts in similar fields to understand user requirements and adjust project plans accordingly, ensuring alignment with company goals and customer preferences. Tech: Python, Pytorch, Flask, GIT, Jenkins, Docker, Tensorflow
- **Tic-Tac-Toe in Python (Artificial Intelligence)**: Implemented Tic-Tac-Toe from scratch using min-max and alpha-beta pruning algorithms. Tech: Python, Numpy, Pandas, Jupeyter Notebook. (May '20)
- **Speech Emotion Recognition (Artificial Intelligence)**: Implemented SER model using Multi-Layer Perceptron classifier. Tech: Python, Librosa, Scikit-Learn, Jupeyter Notebook. (May '20)
- **Implementation of VGG-16 Architecture in Pytorch (Machine Learning)**: Implementated VGG-16 using Convolution Neural Networks. Tech: Python, Pytorch, GPU Acceleration. (November '21)
- **Implementation of Point Net (Artificial Neural Networks)**: Implementation of paper "PointNet: Deep Learning on Point Sets for 3D Classification and Segmentation". Tech: Python, Tensorflow, Neural Networks, GPU Acceleration (July '22)
- **Image Caption Generation (Natural Language Processing, Open CV)**: Developed a model to generate captions for any given image using the combination of VGG-16 and LSTM.
- **Knowledge Based Chatbot Development (Natural Language Processing, Knowledge Representation and Reasoning)**: A chatbot developed on knowledge graphs for a specific category of data scrapped from daraz. .
- **Super Mario based using Genetic Algorithm (Applied Evolutionary Computing)**: Different levels of super mario were generated using genetic Algorithm.
- **End-to-End CI/CD Pipeline for Real-Time Weather Data (Mlops)**: Implemented a robust CI/CD pipeline for a machine learning system using live weather data, employing Github, Github Actions, Flask, Jenkins, and Docker. Showcased my proficiency in automating code quality checks, model training, and deployment. The Flask application, with a live dashboard and user service mode, demonstrated the real-time predictive capabilities of the models. Integrated email notifications via Jenkins to alert registered team members upon encountering data drift. (March '23)

Publications

- "Abstractive Summary Generation for the Urdu Language", *Currently archived* **(arXiv)**
  Ali Raza, Hadia Sultan, Usman Mararib

Certifications

- Introduction to Generative AI (Coursera, Nov'23)
- Build a Full Website using Wordpress (Coursera, Sep'23)
- Introduction to Power BI (Datacamp, July'23)
- Introduction to Tableau (Datacamp, July'23)
- Deep Learning with Pytorch (Datacamp, July '22)

Extracurricular Activities

- Content Writer, Fast Production Society, FAST National University of Computer and Emerging Sciences