Atiq Urrehaman

Machine Learning & Software Development

atiq.urrehaman.interview@gmail.com
+91 9448037346
github.com/Adam-Al-Rahman
codeforces/adam
atiq-urrehaman.netlify.app

Objective

B.Tech CSE student with a strong foundation in software development, machine learning, and web development. Seeking a software development or machine learning opportunity to apply my skills in delivering impactful solutions and contributing to the success of the team.

Relevant Experience

Machine Learning Engineer · **UPES University**   Aug 2024 — Present

SnowPetrelX   Major I Project

- Build deep learning model to recognize Snow Petrel bird actions, such as preening and nesting, from video input (image frames) using Pytorch.
- Pose Estimation with resnet50 and custom convolutional head
- Behavioral classification with Graph Convolutional Network (GCN) and Gated Recurrent Unit (GRU)

Machine Learning Engineer · **IBM Phemesoft**   Jun 2024 — Jul 2024

Fake News Detection · Dataset · Website   Internship

- Built a natural language processing (NLP) model to detect fake news
- Preprocessed and filtered data using Pandas and NumPy to extract features critical for model performance
- Implemented a Long Short-Term Memory (LSTM) model for fake news detection using Python and TensorFlow
- Coordinated with a team of peers to build a web application via the Streamlit Python library

Software Developer · **UPES University**   Jan 2024 — May 2024

HomeZ   Minor II Project

- Developed a software application that processes shapefiles, such as CSVs, to accurately display the geographical zones of tagged animals using Kernal Density Algorithm (KDE) algorithms for habitat analysis
- Partnered with an academic team to build the software application, integrating the Minimum Convex Polygon (MCP) algorithm using Python

Machine Learning Engineer · **UPES University**   Aug 2023 — Dec 2023

Full Stack Developer   Collaborated

REM Model · REM Website · REM API   Minor I Project

- Developed a convolutional neural network (CNN) model using transfer learning to detect animals in images, achieving precise localization and exporting coordinates to a CSV file for further analysis
- Collaborated with a team of fellow students to design and implement a scalable, Dockerized GraphQL API backend, ensuring efficient data retrieval and seamless integration
- Created a front-end web application using Next.js, Tailwind CSS, and TypeScript to interface with the backend API

Skills

Programming Languages
C++, Python, TypeScript, SQL

Libraries & Frameworks
Abseil C++, TensorFlow, Pandas, Matplotlib, NumPy, SymPy, FastAPI, Next.js, Tailwind CSS

Tools & Platforms
Clang, Bazel, Git, GitHub, Docker, PostgreSQL, Linux

Projects

NetzwerX   Ongoing
Python library for network management, including functionalities like changing MAC addresses, currently under development using C++, Python, Abseil ,and Bazel build system

Base-X
Website for converting the text into nitrogenous bases and download the converted nitrogenous bases as a .fasta file

Education

UPES University   Exp. May 2025
Bachelor of Technology in Computer Science, with a specialization in Artificial Intelligence and a minor in Cyber Security

Sri Vidyaniketan PU College
Pre-University, KSEEB, Science

Interests

Tech exploration, Science fiction novels, Satisfactory