Atiq Urrehaman

Machine Learning & Software Development

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Objective

B.Tech CSE student with experience in machine learning and software development, seeking opportunities to contribute my skills and collaborate with teams to deliver impactful solutions.

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 with Mini-Batch training and inference
- Collaborated with a team of fellow students to build 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, SQL

Libraries & Frameworks
Abseil C++, PyTorch, Scikit-Learn, Pandas, Matplotlib, NumPy, FastAPI

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