Atiq Urrehaman

Dedicated software development and machine learning engineering student, focused on creating accessible digital experiences through innovative solutions and intelligent systems.

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Objective

B.Tech CSE student with a solid foundation in software development, machine learning, and web development. Actively seeking a job opportunity in software development where I can apply my skills to create effective solutions and make a meaningful contribution to the team

Relevant Experience

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

Bird Behavioral Analysis Major I Project

- Designing a deep learning model to recognize various Snow Petrel bird actions, such as preening and nesting, from video input (image frames) across a range of environmental conditions

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

Fake News Detection · Dataset · Website Internship

- Built a natural language processing 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, enhancing it with the integration of the BERT-BASE model 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++, Glog, GTest, Pybind11, TensorFlow, Pandas, Matplotlib, NumPy, SymPy, Playwright, FastAPI, Next.js, Tailwind CSS

Tools & Platforms

Clang, Bazel, Git, GitHub, Docker, PostgreSQL, Linux

Selected Projects

NetzwerX Ongoing

Python library for network management, including functionalities like changing MAC addresses, currently under development using C++, Python, 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

Exploring emerging technologies, Science fiction & fantasy novels, Satisfactory