Anuj Bhardwaj

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GitHub LinkedIn Portfolio
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SKILLS

Languages: Python, Java, C++, R, SQL, Erlang, Julia
Frameworks: Pandas, NumPy, TensorFlow, Scikit-Learn, PyTorch, Matplotlib, Hugging face, Streamlit
Cloud: AWS SageMaker, Lambda, API Gateway, AWS S3, Snowflake, Data Bricks

EDUCATION

M.Sc. in Computer Science | University of Florida, Gainesville, Florida, USA — Aug 2021 – May 2023
Courses: ML, Applied ML, Mathematics for Intelligent Systems, Deep Learning for Computer graphics
B.Tech. in Computer Science | RIMT University, India — Aug 2016 – Nov 2020

CERTIFICATIONS

Deep Learning Nanodegree | Udacity | 4 Months | Verify
Courses: Generative Adversarial Networks, CNN, RNN & transformers
PCEP – Certified Entry-Level Python Programmer | Python Institute | Verify

WORK EXPERIENCE

Data Scientist (Internship) — Aug. 2023 - Ongoing
Lumen Data | *San Fransisco, CA*

- Helped the company to understand data sciences and the related tools available, demonstrating knowledge and ability to communicate complex technical concepts to non-technical audiences.
- Successfully developed a demo project using hugging face libraries and Gradio as a proof of concept, demonstrating the viability of using LLMs to solve real-world problems.
- Developed strong skills in Snowpark, Streamlit libraries, the Data Bricks tool set, and hugging face libraries for LLM development and fine-tuning.

Internship — Feb. 2020 – Jun 2020
S.K.Meditech | *Punjab, IN*

- Developed and constructed a UV-C light-based sterilization system that reduced sterilization time by 65%, increased patient care capacity by 200% during the COVID-19 pandemic and maintained effectiveness against viral shifts and bacterial evolution.
- Designed and implemented a custom ESP32-based PCB and firmware to control a UV-C light sterilization system, including timers, human presence detection, and manual/interrupt controls via a MIT App Inventor app.

Student Coordinator — Oct. 2018 – Feb 2020
Incubation/Research Cell | *Mandi Gobindgarh, Punjab, IN*

- Led the successful implementation of diverse projects, including Plant disease AI, Encrypted communication program, and Custom POS, and engineered an autonomous drone platform, while playing a pivotal role in organizing a large-scale technology festival and earning recognition at the Drishti competition.

Software Projects

Fake News Classifier — Jul. 2023

- Developed a fake news detection system using a BERT-based LLM that achieves an accuracy of 95% on a validation dataset of 10,000 news articles.
- The system uses a semantic analysis of the input article to identify features that are common in fake news articles, such as exaggerated language, logical fallacies, and inconsistent information.
- The web app is deployed using Gradio, which is a popular open-source platform for building and sharing machine learning demos.

Chatting Program with File transfer – P2P — Apr. 2023

- Created a Python-based chat program with file transfer functionality, employing computer networking principles and a three-threaded system for efficient interaction and seamless data exchange.
- Developed a chat program that integrated file transfer capabilities by utilizing socket programming, threading, and optimized chunk transmission, ensuring real-time communication, reliability, efficiency, and responsiveness.

Survival Prediction for liver Cancer Patients — Apr. 2022

- Analyzed gene expression data for 371 primary tumors from TCGA using Kaplan-Meier survival analysis, Voom, and Glmfit methods and identified significant clinical features and differentially expressed genes.
- The best performing model was KNN, which achieved an F1 score of 0.85 boosting a baseline of 0.64. This means that the model was able to correctly classify 85% of the patients into the two classes.

Movie Review Classifier: — Jul. 2019

- Built a recurrent neural network model to classify movie reviews with an accuracy of 85%.
- Deployed the model to an endpoint that could be accessed from a web app.
- Used **AWS SageMaker EC2 instance**, **S3**, **Lambda**, and **API Gateway** to build, train and deploy the project.