

JONAS CHRIS FERRAO

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Jonas Ferrao

GitHub

Portfolio

UpWork

EDUCATION

Don Bosco College of Engineering

Bachelor Of Engineering - CGPA - 8.33/10

- Honors: Artificial Intelligence and Machine Learning

Jun 2021 - Jun 2025

Fatorda, India

COURSEWORK / SKILLS

- Math Foundation for AI & ML
- Artificial Intelligence
- Introduction to AI & ML
- Soft Computing
- Data Structures & Algorithm Design
- Neural Networks
- Data Science & Analytics
- Speech & NLP

EXPERIENCE

Freelancing

AI/ML Engineer

Jan 2024 - Apr 2024

Remote

- Ongoing **AutoML** freelance project involving building **3 ML models** for **Time Series forecasting**.
- Completed **2 Upwork** projects, entailing deep learning, earning **5 star ratings** for quality and meeting objectives consistently.

StartupXY

Data Science (AI/ML) Intern

July 2023 - Jan 2024

Remote

- Contributed to development of a **MVP** and collaborated with 2 senior data scientists.
- Engineered **5 ML pipelines** with **10+ scripts**, integrating **NLP, CV, SER, SR** based models.
- Experimented, **fine-tuned** and used **4 Language Models**.

PROJECTS

EmployAI [↗](#) | Flask, PyTorch, HuggingFace, Redis

Jan 2024 - May 2024

- Utilized **LLMs** to analyze job descriptions and user profiles, generating tailored cover letters.
- Implemented a **Vector DB** with **RAG** for generating personalized interview questions/answers based on job description and user profile.

CBLANE [↗](#) | TensorFlow, Keras, Scikit-Learn, RAPIDS, Plotly

Sep 2023 - Jan 2024

- Preprint**
- Created a **deep learning model** for prediction of TFBS in genomic sequences with **AUC** score of **0.94**.
- Utilised transfer learning with **CNN, Bi-LSTM** and **Multi-Head Attention** layered Neural Network.
- Compared **11 distinct ML algorithms** with detailed **metric analysis** and **visualisation**.

Finance Metrics [↗](#) | Tensorflow, Keras, Django, Docker, Azure, MongoDB

Apr 2023 - May 2023

- Designed a web-based platform in **Django** to forecast **live stock prices** of **7 leading Tech Companies**.
- Created CNN-LSTM neural network for stock price prediction with a **12% error rate**.
- Applied **Agile** methodology and utilised **GitHub Actions** for streamlined **CI/CD** to **Azure**.

Twitter Sentiment Analysis [↗](#) | Python, TensorFlow, Django

Dec 2022 - Jan 2023

- Designed a Django **web application** that analysed the sentiments of tweets in **real-time**.
- Constructed a CNN-LSTM Neural Network with a predictive **accuracy of 80%**.

TECHNICAL SKILLS

Machine Learning: Jupyter Notebook, TensorFlow, Keras, PyTorch, Scikit-learn, RAPIDS, Matplotlib, R

Web Development: Django, Flask, CSS, HTML, JavaScript, PHP

DataBase: MongoDB, MySQL, Redis

MLOps: Git, GitHub, Azure, Docker

CERTIFICATIONS

- Google AI-ML Virtual Internship - AICTE [↗](#)
- Machine Learning with Python - freeCodeCamp [↗](#)
- Getting Started with Competitive Programming - NPTEL [↗](#)
- C++ Programming - Udemy [↗](#)
- DevOps Fundamentals - Udemy [↗](#)