Kaustubh Murali Prakash

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EDUCATION

Queen Mary University of London   **London, UK**
MSc Artificial Intelligence in Biosciences - Distinction   *Graduation Date: Sep 2024*

Sir M Visvesvaraya Institute of Technology   **Bangalore, India**
Bachelors of Engineering Biotechnology - Distinction   *Graduation Date: Sep 2022*

WORK EXPERIENCE

Veritylabs AI   **Remote**
AI Engineer Intern   *May 2025 - Present*

- Developed and managed **high-performance APIs using FastAPI,** integrating seamlessly with React.js front-end architecture to enhance user interaction and system responsiveness.
- Leveraged AWS Bedrock to deploy and infer across large language models including **Gemini, GPT, and Claude**, building **Retrieval-Augmented Generation (RAG)** systems to power intelligent AI-driven features and enhance contextual decision-making capabilities.

Dilify   **London, UK**
AI/ML Engineer   *Apr 2024 - Present*

- Collaborated cross-functionally with **Products and Customer success teams** to develop an AI ethics framework presented to senior management, utilizing **risk management** and **strategy adoption** addressing EUDR compliance to **improve operations by 75%**.
- Engineered and optimized advanced **image classification deep learning models** for **deforestation analysis**, **achieving a 95% accuracy** in detecting deforested regions across **100000+ sq km of geospatial data** to enhance sustainability.
- Optimized system performance using **RESTful API** to identify improvements, resulting in **99.9% uptime** while successfully **managing over 1500 requests per minute** on **AWS** during peak load times.

The Nature Impact   **London, UK**
Sustainability AI Intern   *Jan 2024 - Mar 2024*

- Engineered a machine learning model using **Google Cloud Platform (GCP)** that accurately predicted agricultural yield variations due to climate change, achieving a **92% accuracy rate across 50000 data points** to improve crop management strategies.
- Developed and deployed a **natural language processing pipeline** using **Transformers and huggingface**, **enhancing data extraction efficiency by 40%** while **analyzing 5000 scientific papers** on energy technologies to find impactful research opportunities.
- Collaborated on the **integration of 3 APIs (weather, soil and market data)** into a carbon footprint tracking application using **Python and Javascript**, enhancing **data accuracy** and **visualization for 1000+ users** which resulted in improved sustainability practices to **95%**.

Petbiotech   **Bangalore, India**
Research Data Analyst   *Sep 2022 - Sep 2023*

- Conducted epidemiological studies on LSDV for **the microbiology team** by **analyzing 500000 data points** on **RNA sequencer** to pinpoint critical risk factors, contributing to a **10% reduction** in outbreak duration in Rannebennur Taluk.
- Developed **advanced data analysis tools** utilizing **Python** and **machine learning algorithms** for studies including Lumpy Skin Disease Virus, which led to improved data processing speed by **30%**.
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Delivered presentations of technical findings to teams including **Veterinary Medicine, Public Health and Agriculture extension teams** which enhanced collaboration and understanding across **3 departments**, leading to a **15% reduction in project turnaround time**.

SKILLS

Technical: Python, R, ML frameworks, NLP, Computer Vision, Google Cloud Platform, Amazon Web Services, SQL, FastAPI, Git, Flask, Linux, Pytorch, Tensorflow.

Projects: Computer Vision assisted Robotic Arm, **Sector Performance Sentiment Analysis**, **LLM Chatbot**