AAKASH KURAGAYALA

Data Scientist & AI Engineer

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LINKEDIN | HACKERRANK | GITHUB

EDUCATION

PRESIDENCY UNIVERSITY july/2020 - july/2024
B.TECH COMPUTER SCIENCE ENGINEERING (SPECIALIZATION IN AI & ML) Bangalore, India
CGPA: 8.13 (out of 10.0)

ASIAN INSTITUTE OF TECHNOLOGY August 2024 - July 2026
DATA SCIENCE AND ARTIFICIAL INTELLIGENCE MASTERS Pathumthani, Thailand
CGPA: 3.0 (out of 4.0)

EXPERIENCE

LA TROBE UNIVERSITY AUSTRALIA | RESEARCH INTERN Bengaluru India | jun2023 – aug 2023

This internship is a great opportunity for students who are interested in machine learning and fraud detection. The intern will work with a team of researchers to develop and apply machine learning models to detect fraudulent calls. The intern will also have the opportunity to analyze data sets of call records to identify patterns that may indicate fraud. This internship will provide the intern with valuable experience in machine learning, fraud detection, and data analysis.

IIPP TAIWAN | INTERN Hsinchu, Taiwan | october 2023 – december 2023

I spearheaded the development of a Python-based data logging interface for the HP 4140B meter, working independently to craft a user-friendly system for seamless data capture and management. My focus on clean architecture and efficient communication with the instrument ensured reliable data acquisition and storage. I implemented robust functionalities for data retrieval, visualization, and analysis, all presented through an intuitive interface that empowers users. This project not only showcases my Python proficiency and data logging expertise, but also my ability to tackle complex projects independently, optimize performance, and prioritize user experience.

FREE LANCING | CONTENT WRITING bangalore , india | jan 2021 – august 2022

as a professional i will write informative and engaging articles to help brands showcase their products. They write on a range of subjects and are responsible for creating the best possible written or visual content, from blog posts to press releases.
also help in writing story ideas or concepts for marketing

SKILLS

PROGRAMMING LANGUAGES	c, python, R, HTML, CSS
LIBRARIES/FRAMEWORKS	TensorFlow, Keras, PyTorch, pyvisa, skfuzzy, google.colab.patches, Torchvision, OpenCV, nltk, gymnasium
TOOLS / PLATFORMS	powebi, tableau, matlab, Docker, streamlit, Github, VS Code
DATABASES	SQL, MongoDB

PROJECTS / OPEN-SOURCE

HP 4140B DEVICE CONNECTION USING PYTHON | LINK Python , pyvisa

The project involves the development of an automated data collection and analysis system using the HP 4140B Precision DC Source/Measure Unit. The primary objective is to efficiently acquire, measure, and record voltage and current data from the instrument and analyze it for various applications.

SCAM CALL BAITING | Link
Python, tenserflow, sklearn

This project focuses on developing a text classification system to detect scam messages using Convolutional Neural Networks (CNNs). Scam messages are prevalent in various forms, including emails, texts, and online comments. The goal is to build a robust model that can distinguish between scam and non-scam content.

CONVNEXT ARCHITECTURE | Link
Python, tensorflow, keras, GPU, deep learning

This project focuses on the implementation of the ConvNetX architecture, a convolutional neural network (CNN) architecture designed for image classification tasks. The ConvNetX architecture combines the power of convolutional layers with the flexibility of fully connected layers to effectively learn hierarchical features from input data. The project involves collecting and preprocessing a dataset, defining the network architecture, initializing the model, training the network using the dataset, evaluating its performance, and fine-tuning the hyperparameters for optimal results

THE CLOUD KITCHEN WEBSITE | Link
Html, css, javascript

HTML website is designed for the cloud kitchen idea with the help of css for the styles and javascript for b page smooth scrolling

BREAST CANCER ANALYSIS | Link
Python machine learning -Unsupervised Learning Technique: Clustering

In this project, you will be using a K-means clustering algorithm in machine learning to detect breast cancer based on target attributes.

LIFE EXPECTANCY PREDICTION | Link
Python machine learning-Supervised Learning Technique: Regression

In this project, you will be using the Random Forest regressor model to predict the life expectancy of an individual based on features such as education, alcohol consumption, and adult mortality.

CERTIFICATIONS

- Machine Learning - E & ICT Academy, Indian Inistitute of Technology Kanpur
- LA Trobe university internship - La Trobe University Australia
- IIPP Internship - IIPP Taiwan
- SQL BASIC - hackerrank
- SQL INTERMEDIATE - hackerrank
- CSS - Hackerrank
- Supervised Machine Learning: Regression and Classification - Coursera
- real life ml and data science projects - Udemy
- agile scrum foundation - Skillup
- introduction to ai - Coursera

HONORS & AWARDS

- Elected as General Secretary of the Student Union at the Asian Institute of Technology, Thailand, in January 2025, entrusted with representing a diverse international student body and spearheading initiatives to foster student engagement, inclusivity, and welfare.