

# Kiran Baby

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## EDUCATION

### UNIVERSITY OF ST ANDREWS

MSc IN ARTIFICIAL INTELLIGENCE

2022-2023 | Scotland, St Andrews

Expected Grade: Merit

### FISAT

B-TECH IN COMPUTER SCIENCE

2017-2021 | India, Kerala, Angamaly

CGPA: 8.09/10 (First-Class)

### CHAVARA DARSAN

2014-2016 | India, Kerala

CGPA: 8.2/10 (First-Class)

## COURSEWORK

### GRADUATE

Artificial Intelligence Principle

Artificial Intelligence Practice

Machine Learning

Constraint Programming

Data-Intensive Systems

Object Oriented Modelling, Design and

Programming

Video Games

Web Technologies

## SKILLS

### PROGRAMMING LANGUAGES

•Python • Java • Javascript

•C# • Solidity

### MACHINE LEARNING

•PyTorch • TensorFlow • Numpy

• Pandas • Matplotlib • Scikit-learn

### FRONTEND

•React • Redux • HTML • CSS

### BACKEND

•Django •Node.js • Express

### DATABASES

•MongoDB •Sqlite3

### BLOCKCHAIN

•HardHat •Ethereum Blockchain

•Ether.js •Chai •Mocha

### VERSION CONTROLS

•Git •GitHub •GitHub-Actions

### CONTAINERIZATION

•Docker

### CLOUD

•Google-Cloud platform •Firebase

### SOFTWARES AND TOOLS

•Unity •AndroidStudio •Postman

•MongoDB Atlas •Jupyter Notebook

## EXPERIENCE

### UNIVERSITY ULTRARUN | DEVELOPER OF THE WEBSITE

Jan 2023 – Present | Ongoing work

- Built a website for an upcoming marathon event going to take place in 2024 between Cambridge, Oxford, and St Andrews University.
- Tech stacks:- React, Leaflet.js, Google maps, Context api

## PROJECTS

### CLASSIFICATION AND ANALYSIS OF GAP PROGRAMMING

#### LANGUAGE ON GITHUB USING AI | DISSERTATION

May 2023 – Aug 2023 | University of St Andrews

- Identified the flaws on GitHub to classify GAP repositories
- Created python scripts to mine data from GitHub for ML model training and thereafter created a model pipeline to retrieve real GAP repositories
- Experimented with machine learning and deep learning architectures using PyTorch, scikit-learn, etc..
- Leveraged LLMs(BERT, RoBERTA) using HuggingFace library
- Integrated GitHub-Actions on GitHub to have a good workflow
- Done an analysis on the impact of GAP language have in the programming community
- Dockerized the application
- **Future extensions:-** A web application using django as backend and React in the frontend and hosted on Google cloud as a docker image

### ML IMPLEMENTED MAILING SERVICE | PERSONAL PROJECT

Jun 2023 – Present

- A mailing service web-app that sends users research papers on a weekly basis
- Created an ML model using NLP techniques for multilabel classification
- Built frontend using React and Redux, and backend using Django, Celery, and SMTP server
- Dockerized the project

### BOOKURTRIP CLONE | PERSONAL PROJECT

2022

- A web application to book trips
- Tech Stacks:- React, Context api, Node.js, Express, MongoDB, Mongoose

### TRAVEL ADVISOR | PERSONAL PROJECT

2022

- A web-app to that can search for Restaurants, Hotels, and Attractive Locations using the google map. It gives you realtime data fetched from RapidAPI. The app also uses your current location and provides you with the details of the places.

## AWARDS

2021 3<sup>rd</sup> Prize

Achieved the esteemed 3<sup>rd</sup> prize in the Game Begetter-game development competition held at Techfest, hosted by IIT Bombay, Asia's largest techfest, and generously sponsored by the renowned Moonfrog Labs.

2021 National

Honored as a distinguished finalist in the prestigious 10th CSI-InApp International Student Project Awards 2021, conducted jointly by the esteemed Computer Society of India and InApp Technologies.

2021 1<sup>st</sup> Prize

Secured the coveted 1<sup>st</sup> prize in a remarkable game development competition organized by the esteemed IEEE Society of NIT Calicut.

2021 2<sup>nd</sup> Place

Achieved a remarkable 2nd place for the prestigious Best Projects Award in the CSE department of FISAT (Federal Institute of Science and Technology).

2021 5 star gold

Attained the prestigious 5-star gold achievement in Python on Hackerrank.

## CERTIFICATES

2022	Udemy, Angela Yu	The complete 2022 web development bootcamp
2022	IBM, Coursera	Machine Learning with Python
2022	Hackerrank, Python	Hackerrank certificate for clearing the python test.
2021	IIT Madras, Nptel	The Joy of Computing Using Python
2021	IIT Kharagpur, Nptel	Programming in Java
2020	XPLORE ITCORP, Internship	Advanced Certified Secure Computer User