

Dhanush Binu

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I am a self-motivated, energetic, and hard-working person. I perform well in a team and can adapt to challenging situations. I am also a perfectionist who strives to achieve maximum efficiency in completing my task. Currently seeking a graduate position in data science/computer vision.

Education

Indian Institute of Information Technology, Kottayam Computer Science and Engineering Bachelor of Technology (Hons.) CGPA: 8.32	Aug 2019 - May 2023
Delhi Public School Modern Indian School, Doha Qatar Higher Secondary Education Class XII Percentage: 88%	April 2018 - May 2019
Delhi Public School Modern Indian School, Doha Qatar Secondary Education Class X Percentage: 97%	April 2016 - May 2017

Work Experience

CleanTech Solar , <i>Data Analyst Intern</i>	June 2022 - July 2022
<ul style="list-style-type: none">Co-operated with site engineers to build more than five custom graphs in python and R.Updated and maintained the main company database.Developed a program to automate modification, addition, and deletion of geographical site information in the database.Fixed bugs in the automated email system and handled sudden aberrations in the PV system values.	
Tech Reinvented , <i>Game Development Intern</i>	June 2021 - Aug 2022
<ul style="list-style-type: none">Developed a unity mobile game with the provided assets and sprites.Implemented modifications to the level design and physics system of the game.Link : Android Play Store	

Publications

Academic Dishonesty Detection in Exams using Pose Extraction International Conference on Inventive Systems and Control ICISC 2023, Springer Conference Date: 31th January 2023	Published
Advantage Actor-critic reinforcement learning with technical indicators for stock trading decisions	In Preparation

Technical Skills

Languages : Python, C++, C, SQL.
Data Science : Numpy, Pandas, Excel, Sklearn, TensorFlow, PyTorch, Keras, Power BI, OpenCV, Selenium.
Database : SQL, MongoDB.
Web Development : JavaScript, React, Django, Flask.

Research Interest

Machine Learning, Statistics, Reinforcement Learning, Deep Learning, Computer Vision, Big Data Analytics.

Projects

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| Cheating Detection in Exams using Pose Detection and Machine Learning | Jan 2022 - Ongoing |
| <ul style="list-style-type: none">• Developed a model that detects motion using OpenCV absdiff and threshold function.• The model performs face recognition and human pose extraction in the form of keypoints, these keypoints are converted to a vector format• The Vector Format is then passed through an ensemble ExtraTree classifier to classify the video frames accurately. | |
| Automated Stock Trading using advantage actor critic model | Sept 2022 - Ongoing |
| <ul style="list-style-type: none">• Used Advantage actor-critic while considering technical indicators to make stock trading decisions.• Experimented with different technical indicators. | |
| Crime Trend Prediction and Analysis using Big Data | Aug 2021 - Sept 2022 |
| <ul style="list-style-type: none">• A generalized additive model was used to find the general, seasonal, and holiday trends.• Using the model, we find the trends for multiple parameters present in the dataset.• The data pipeline was developed with the help of spark and implemented in data bricks. | |
| Quiz Web Application using Django | March 2021 - May 2021 |
| <ul style="list-style-type: none">• The web application was built with Django as its backend, while Javascript is used to develop the frontend.• Designed separate admin and user interface for defining distinct features unique to the admin and user.• Implemented a basic proctoring system for the web application. For instance, the app will go full-screen mode when attending a quiz. | |
| Covid Tracking App using React | Sept 2020 - Nov 2020 |
| <ul style="list-style-type: none">• The app provides statistics related to covid cases globally, for each country, and each state in India with different timelines.• The app was made using React as its frontend and hosted in firebase. | |

Volunteer Experience

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| <ul style="list-style-type: none">• Organized online intra-college Esports tournament lasting two weeks. | Nov 2021 - Dec 2021 |
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Conferences/Webinars

- International Conference on Innovative trends in information technology, IIITK, 2019.
- QThursday Webinar Series, IIITK, 2022.

Certifications

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| <ul style="list-style-type: none">• Introduction to Data Science using Python, Coursera• Database Administrator, Pragmatic Works | <ul style="list-style-type: none">• Introduction to Deep Learning with Pytorch, Udacity• Azure Data Developer, Pragmatic Works |
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