

RITHISH PG

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EDUCATION

ST. JOSEPH'S INSTITUTE OF TECHNOLOGY

Chennai, TN

Bachelor of Engineering

April 2024

Major in Computer Science Engineering

Cumulative GPA: 8.59/10

Relevant Coursework: Python Programming, Data Science (Coursera), Project Management (Coursera), JavaScript

GILL ADARSH MATRICULATION HIGHER SECONDARY SCHOOL

Chennai, TN

SSLC (10th) – 78.6%, HSC – 70.7%

March 2020

WORKSHOP

DATA SCIENCE USING PYTHON

- Modeling and analyzing data in Python which focus on machine learning tasks and prediction accuracy.

FULL STACK DEVELOPMENT

- Engaged in a comprehensive workshop on full stack development, acquiring practical knowledge of front-end (HTML, CSS, JavaScript) and back-end (Node.js, Express, MongoDB) technologies.

BLOCK CHAIN

- Took part in a blockchain workshop to obtain practical knowledge of smart contracts, decentralized applications (DApps), and blockchain development tools.

INTERNSHIP

WEB DEVELOPMENT – IT EXPERT TRAINING

Jun 2023 – July 2023

- Worked with cross-functional teams to create and manage dynamic web applications while contributing to full-stack web development projects.
- Gained practical experience in database management, API integration, and responsive design while specializing in front-end and back-end development.

INTERNET OF THINGS – IT EXPERT TRAINING

July 2023 - Aug 2023

- Accomplished an internship using Python to develop IoT solutions that integrated sensors and microcontrollers for automation and data collection.
- Incorporated real-time monitoring and control systems and made use of cloud platforms for data analysis and storage.

UNIVERSITY PROJECTS

PEDESTRIAN DETECTION AND TRACKING USING OPENCV

Jan 2023

- A real-time deep learning model with the OpenCV library has been created and put into use with Python framework such as TensorFlow/Keras, NumPy, Pandas, and OpenCV.
- Excellent recall and precision on benchmark datasets, with accuracy and performance that are optimized.

ENHANCING HUMAN ACTIVITY RECOGNITION USING CNN & LSTM INTEGRATION

Mar 2024

- Accelerometers in smartphones and wearable sensors, TensorFlow, Keras, Scikit-learn, and data visualization tools (Matplotlib, Seaborn)
- In order to precisely classify and predict human activities from sensor data, a reliable system for human activity recognition was developed by combining Convolutional Neural Networks (CNNs) with Long Short-Term Memory (LSTM) networks.

EXTRA CIRCULAR ACTIVITIES

2024 IEEE CONFERENCE ON CONTEMPORARY COMPUTING AND COMMUNICATIONS

Mar 2024

Presented & Published Paper

- Delivered Novel approaches to improve the detection of human activity.
- A groundbreaking study.
- The CNN & LSTM integration approach's superiority over conventional methods is demonstrated.
- Contributed to the scientific community's understanding of sophisticated methods for recognising human activity by publishing the paper in conference proceedings.

ADDITIONAL

Technical Skills: Python, MySQL, HTML/CSS, JavaScript, ReactJS, NodeJS, MongoDB, Git, GitHub

Languages: Fluent in English, Tamil; Native in Telugu

Certifications & Training: Cyber Security (Technical Quiz), PHP & MySQL, Cambridge Assessment English (BEC)