

Melvin J Joseph

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EDUCATION

PES University

Bengaluru, India

Bachelor of Technology in Computer Science and Engineering

Sep. 2021 – Present (Expected Mar. 2025)

- CGPA: 8.63/10 (as of Jun. 2024)
- Coursework- Data Structures, Algorithms, Machine Intelligence, Big Data, Data Analytics, Cloud Computing

Deeksha Center For Learning PU College

Bengaluru, India

Pre-University Course

May. 2019 – Jun. 2021

- 95.6% in 2nd PU Boards

EXPERIENCE

Teaching Assistant for Data Structures

Aug 2024 – Present

PES University

Bengaluru, India

- Created and evaluated various lab assessments for 120 students in Data Structures.

Info Edge India Ltd

Jun 2024 – Jul 2024

Summer Intern

Bengaluru, India

PROJECTS

Sentiment-Driven Stock Price Forecasting | *Jupyter, Hugging Face, Keras*

Feb. 2024 – Apr. 2024

- Developed a project focused on leveraging natural language processing (NLP) techniques to analyze sentiments from daily news articles related to Tata Motors. This involved scraping, curating, and annotating a comprehensive dataset comprising both historical stock prices and day-wise news articles
- Applied cutting-edge deep neural network architectures like Long Short Term Memory (LSTM), to predict future stock prices of Tata Motors based on the sentiment analysis of news titles.

Inventory Management System | *Python, Flask, RabbitMQ, MongoDB, Docker*

Mar. 2024 – Apr. 2024

- Designed and implemented a scalable microservices architecture using Flask and Python, enabling independent development, deployment, and scaling of components.
- Utilized RabbitMQ for robust inter-service communication, ensuring reliable message passing between health checks, item creation, stock management, and order processing services.
- Containerized the application using Docker for consistency and portability across environments, and integrated MongoDB for efficient inventory data management with comprehensive CRUD operations

Vinhal | *Rust, Python, Git*

Jun. 2023 – Aug. 2023

- Pioneered the development of a cutting-edge machine learning library in Rust, seamlessly callable from Python, resulting in a remarkable 20%-40% enhancement in training efficiency for machine learning models
- Demonstrated exceptional proficiency by implementing learning algorithms from the ground up, without reliance on external libraries, showcasing a strong foundation in machine learning principles.

TECHNICAL SKILLS

Languages: Python, C, SQL (MySQL, SQLite), JavaScript, MongoDB, HTML/CSS

Frameworks: Hadoop, Kafka, Spark, RabbitMQ, Keras, Pytorch

Developer Tools/Technologies: Git, Linux, VS Code, Jupyter, GitHub

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, OpenCV

AWARDS/ POSITIONS OF RESPONSIBILITY

Core Team Member

Aug. 2022 – Jul. 2023

Google Developer Student Clubs PESU ECC

- Mentored participants in Override -an app development hackathon and CSS Battles - a CSS design competition

Dr. C N Rao Merit Scholarship Award

Jan. 2024

PES University

- 40% tuition fee waiver awarded to the top 20% students in the department.