

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: 8.61/10 (as of Jan. 2024)
- Relevant Coursework- Data Structures, Algorithms, Operating Systems, Computer Networks, Machine Intelligence, Software Engineering, Database Management Systems, Big Data, Data Analytics.

Deeksha Center For Learning PU College

Bengaluru, India

Pre-University Course

May. 2019 – Jun. 2021

- 95.6% in 2nd PU Boards

PROJECTS

Vinhal | *Rust, Python, Git*

Jun. 2023 – Present

- 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
- Leveraged PyO3 bindings (Maturin) to seamlessly integrate Rust and Python, demonstrating a mastery of both languages and a deep understanding of their interplay.
- Demonstrated exceptional proficiency by implementing learning algorithms from the ground up, without reliance on external libraries, showcasing a strong foundation in machine learning principles.

Tic Tac Toe | *Python, Socket API*

Mar. 2023 – Apr. 2023

- Engineered a robust multiplayer Tic Tac Toe game, enabling seamless gameplay for users across separate nodes connected over a network, showcasing advanced proficiency in Python and network programming.
- Demonstrated expertise in socket programming by establishing smooth communication between two device interfaces, ensuring a seamless and engaging gaming experience.
- Designed a user-friendly terminal interface, prioritizing ease of use for an enhanced user experience.

Restaurant | *JavaScript, React, Node.js, MongoDB, Express.js, Vercel*

Oct. 2022 – Dec. 2022

- Spearheaded the end-to-end development of a deploy-ready, full-stack restaurant web application, showcasing mastery in JavaScript, React, Node.js, MongoDB, and Express.js.
- Engineered an interactive and intuitive user interface utilizing React, elevating user engagement and satisfaction.
- Employed MongoDB for real-time storage of booking information, ensuring seamless data management and retrieval.
- Successfully deployed the front-end of the application using Vercel, highlighting proficiency in deploying and managing web applications.

TECHNICAL SKILLS

Languages: Python, C, SQL (Postgres, SQLite), Hbase, Hive, JavaScript, MongoDB, HTML/CSS

Frameworks: Hadoop, Kafka, Spark, Tensorflow, Keras, Pytorch, React, Node.js

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

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 design and development hackathon and CSS Battles - a CSS design competition conducted by Google Developer Student Clubs PESU ECC in collaboration with other clubs in the campus such as ACM PESU ECC Student Chapter.

Prof. MR Doreswamy Merit Scholarship Award

Jan. 2023

PES University

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

Distinction Award

Aug. 2022

PES University