

# 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: 8.47/10 (as of Jun. 2023)
- 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*