

# Melvin J Joseph

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## EDUCATION

### PES University

*Bachelor of Technology in Computer Science and Engineering*

- CGPA: 8.73/10

Bengaluru, India

Sep. 2021 – May. 2025

### Deeksha Center For Learning PU College

*Pre-University Course*

- 95.6% in 2nd PU Boards

Bengaluru, India

May. 2019 – Jun. 2021

## EXPERIENCE

### Software Engineer Intern

*Telstra*

- Designed and implemented a proof of concept to evaluate Apache Kafka as a replacement for the existing web subscription message broker, improving scalability and real-time data delivery.
- Deployed and tested services on AWS, ensuring reliability, message throughput, and compatibility with existing infrastructure components.
- Contributed to the development of various features in the existing codebase.

Feb 2025 – Jun 2025

Bengaluru, India

### Teaching Assistant for Data Structures

*PES University*

- Designed and evaluated diverse lab assessments, enhancing the understanding and application of data structures for over 120 students.

Aug 2024 – Dec 2024

Bengaluru, India

## PUBLICATIONS

### Sports Video Summarization Using Multi-modal Approach | *Python, Tensorflow*

Feb. 2024 – May. 2025

- Published in the 2025 12th International Conference on Emerging Trends in Engineering & Technology - Signal and Information Processing.
- Integrated audio, video, and textual data to generate enriched football highlights using techniques like YOLO for scoreboard detection, Whisper for audio transcription, and fine-tuned BERT for event classification.
- Achieved high precision and recall by combining modalities, identifying additional key events beyond standard highlights, and leveraging advanced integration algorithms.

## 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 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.

## TECHNICAL SKILLS

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

**Frameworks:** Tensorflow, Scikit-learn, Keras, Pytorch

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

**Libraries:** Pandas, NumPy, Matplotlib, OpenCV, Tensorflow, Scikit-learn, Keras

## AWARDS/ POSITIONS OF RESPONSIBILITY

### Dr. C N Rao Merit Scholarship Award

*PES University*

Jan. 2024