

# VARUN J

Date of Birth: 25-10-2002

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Location: Bengaluru

## EDUCATION

- Secondary School: (10<sup>th</sup> Standard):** CBSE Board. Scored **80%** in the year **2018**.
- Pre-University:** Karnataka State Board. Scored **90%** in the year **2020**.
- Graduation:** B.E in Medical Electronics from **MS Ramaiah Institute of Technology**, in **2024**. Scored **80%** and overall CGPA was **8.4**.

## PROFESSIONAL SUMMARY

Aspiring Full Stack Software Developer with expertise in front-end and back-end technologies, including Java, Python, Oracle SQL, HTML, CSS, JSP, and JavaScript. A Medical Electronics Engineering graduate with experience in designing user-friendly interfaces and robust back-end systems. Passionate about continuous learning and problem-solving, eager to contribute to innovative, scalable solutions. Seeking a challenging role to enhance technical skills and drive impactful software development.

## WORK EXPERIENCE

- Remote Internship | Auptimo Technologies, New Delhi | Jan 2024 – Apr 2024**  
Specialized in developing advanced computer vision functionalities, with a focus on object tracking using video processing techniques. Designed and implemented features such as center and mouse-point zooming, image panning, background removal, and text wrapping, enhancing the performance and usability of digital imaging tools. Delivered innovative solutions that improved user experience while showcasing expertise in video processing, problem-solving, and remote collaboration.
- Java Full-Stack Development | Ashwik Tech Solutions | Jul 2024 – Dec 2024**  
Completed 6 months of training in Java full-stack development, gaining proficiency in **Core Java, Advanced Java (J2EE), Oracle DBMS, (SQL, PL/SQL)**, and Web technologies. Acquired hands-on experience in frameworks such as **Spring and Hibernate**, enhancing skills in both front-end and back-end development.
- Online Internship | My Captain E-Learning Platform | Apr 2023 – Dec 2023**  
Certified in **Python, Java, Web Development and Artificial Intelligence** with practical expertise in software development and system design. Completed **9 months** of hands-on experience, demonstrating strong problem-solving, programming skills, and a solid understanding of basic concepts in multiple programming languages.

## TECHNICAL SKILLS

- Signal Processing and Image Processing using MATLAB/ Python.
- Responsive UI using Python with Application deployment.
- Data Structures and Algorithms using C++.
- Static, Dynamic Web Technologies, HTML, CSS, JavaScript, JSP.
- DBMS, using SQL and PLSQL(Oracle DB).
- Core Java, Multithreading, Collections and Advanced Java
- Java Technologies like J2EE, JDBC, Servlets.
- Spring Framework, Spring ORM, MVC and Spring Hibernate.

## PROJECTS

- Gait Analysis: Design and Development of Wearable Gait System [2024]**  
Utilizing sensor data, the project examined human gait phases, with **60% stance and 40% swing**. Temporal parameters were extracted and used in a Quadratic SVM Classifier. This model accurately distinguished between flat surface and staircase motion, achieving **95% accuracy**. A Graphical User Interface was developed using Python to process and visualize the results.
- Automatic Classification of EEG: Detection of Insomnia in EEG Data by SVM Classifier [2023].**  
Open-source EEG data is utilized to extract the REM sleep stage from EEG data. Additionally, spectral, and statistical features are loaded and employed for SVM model training to classify individuals with insomnia and those without it. This model achieved **92% accuracy**.
- Real-Time Object Tracking System with Python [2024]**  
Developed an object tracking system using Python with real-time detection and tracking capabilities. Integrated robust back-end processing and a user-friendly front-end interface, enabling features like center zooming and panning to enhance tracking accuracy and user interaction.

## MY SOFTSKILLS AND STRENGTHS

- Effective Communication
- Analytical Thinking
- Problem Solving
- Time Management
- Quick Adaptability
- Continuous Learner
- Mindfulness
- Project Experience

## EXTRA CORRICULAR ACHIEVEMENTS

- MS Ramaiah Alumni, Award 2024:** Secured 1st place for final year project 2024, from Dept of Medical Electronics, developed software which is designed to analyze Human Gait data and classify using SVM machine learning model.
- First place in Circuit Challenge:** During the one-day Technical Symposium "**MEDIPULSE 2023**", we secured the **1st prize** in the Circuit Challenge competition. The event was hosted by the Dept of Medical Electronics Engineering in our college.
- Bronze medalist in Chess:** In the year 2021, participated in **Online Chess Bullets** tournament on chess.com, secured **3<sup>rd</sup> rank**, out of 850 players worldwide. The participants had ELO ratings of 1200 - 1800 (**Intermediate skill**). Over **13 matches** in **30 minutes**, **Achieved 11 wins and 2 losses**.

## COURSES AND CERTIFICATION (Certified in these following Workshops for 1 Month duration in Mycaptain E-Learning Platform)

- C++ Programming
- Introduction to Artificial Intelligence
- Big data Analytics with Python
- Machine Learning with Python
- Web Development (Figma)
- Android App Development