VARUN J

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• EDUCATION

- ➢ **Secondary School: (10th 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 M S Ramaiah Institute of Technology, in the year 2024. Scored 80% and overall CGPA was 8.4.

• CAREER OBJECTIVE

Aim to pursue as a Full Stack Software Developer, to leverage my skills in front-end and back-end development to create innovative, scalable solutions while continuously learning and contributing to occupational growth and success.

• PROFESSIONAL SUMMARY

A Medical Electronics Engineering graduate with a strong focus on software development, skilled in Java, Python, Oracle SQL, and front-end technologies like HTML, CSS, JSP, and JavaScript. Experienced in designing user-friendly interfaces and developing functional back-end systems through diverse projects and internships, Quick Learner, seeking a challenging role as a full-stack developer to further enhance my technical expertise.

• WORK EXPERIENCE

- ➢ **Internship in Auptimo Technologies New Delhi:** During my 4 months Internship in Auptimo Technologies (Work from Home) , worked as an Image processing Intern and developed Object tracking System using OpenCV and PySDL2.

- ➢ **Hacker-rank Certified**: Certified in Python, Java, and SQL Basics with 3 months of hands-on experience in software development and system design.

- ➢ **Java Full Stack development:** In my 4 months training in Java Full stack development gained knowledge about Core Java, Advance Java (J2EE), Oracle Database Management using SQL and PLSQL and Web Technologies, Frameworks including Spring and Hibernate.

• PROGRAMMING LANGUAGES

Basics of C, C++, Python, Java, HTML, XML, CSS, MATLAB, Embedded C, SQL (Oracle DB).

• OPERATING SYSTEM and IDEs

Windows OS, Visual Studio Code(C,C++,Python), Eclipse IDE(Java, Web, Frameworks), Arduino IDE.

• MEDIUM OF COMMUNICATION

Kannada (Native language), English, Hindi. [Read, Write and Speak]

• TECHNICAL SKILLS

- ➢ Signal Processing and Image Processing using MATLAB/ Python.

- ➢ Data Structures and Algorithms using C++.

- ➢ Responsive Graphical user Interface using Python, extended with Application deployment.

- ➢ Static and Dynamic Web Technologies using HTML CSS and JavaScript and JSP.

- ➢ DBMS using SQL and PLSQL(Oracle DB).

- ➢ Java programming includes Core Java, Multithreading, Collections and Advanced Java Concepts.

- ➢ Java Technologies like J2EE, JDBC, Servlets.

- ➢ Spring Framework, including Spring ORM, Spring MVC and also Spring Hibernate.

- ## PROJECTS

➢ **Gait Analysis: Design and Development of Wearable Gait System** [2024]

Utilizing IMU 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
➢ Quick Adaptability	➢ Continuous Learner
➢ Problem Solving	➢ Time Management
➢ Mindfulness	➢ Project Experience

- ## EXTRA CORRICULAR ACHIEVEMENTS

➢ **MS Ramaiah Alumni, Award 2024:** Secured 1st place for final year project 2024, from department of Medical Electronics Engineering. We 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 Department of Medical Electronics Engineering in our college.

➢ **Bronze medalist in Chess**: In the year 2021 Online Chess Bullets tournament on chess.com, secured 3rd rank, out of 850 players worldwide. The participants had ELO ratings of 1200 to 1800, indicating intermediate skill. Over 26 matches in 30 minutes, Achieved 22 wins, 2 draws, and 2 losses.

- ## TRAINING COURSES AND CERTIFICATION

➢ Certified in the following Courses of One Month duration in Mycaptain E-Learning Platform.
  - Introduction to Artificial Intelligence
  - Web Development / HTML / CSS
  - Data Analytics with Python

- ## DECLARATION

Hereby declare that all the information is correct up to my knowledge and bears the responsibility for above-mentioned particulars.

(VARUN J)