

HARSHAVARDHAN VEMULA

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Professional Summary

Recent graduate in Computer Science with experience in full-stack development, machine learning, and software engineering. Proven ability to design, develop, and test software features, collaborate with teams, and document technical projects. Seeking to apply my knowledge in innovative projects and problem-solving efforts.

Skills

Technical Skills: Java, Advanced Java, Python, C++, C.

Front – End: HTML5, CSS3, JavaScript, React.js.

Back – End: Spring Boot, Spring MVC, Hibernate, JSP, Servlets, Spring – Framework, JDBC.

Software Development Practices: SDLC (*Software Development Life Cycle*), Rest API, Multithreading, Code Review, Debugging, Unit Testing, Technical Documentation, Software Installation, Malfunction troubleshooting, Customer Support, Inventory Recordkeeping

Machine Learning and Deep Learning: Neural Networks, Image Classification, Feature Extraction, Model Evaluation, Data Preprocessing.

Tools And Libraries: Keras, TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib

Courses: Data Structures & Algorithms, OOPS, DBMS, MYSQL, Artificial Intelligence, Machine Learning, Deep Learning, Data Analysis.

Soft Skills: Innovative, Collaborative, Problem Solving.

Other Skills: Ethical Hacking (Beginner).

Area of Interest: Associate Engineer, Full Stack, Machine Learning, Artificial Intelligence, Deep Learning, Data Analysis.

Professional Experience

Technical Intern | byteXL

Dec 2023 – Mar 2024

- Created dynamic e-commerce solutions for businesses to boost online sales and improve customer satisfaction.
- Enhanced website functionality by optimizing existing code and implementing new features.
- Attended development programs to gain competencies and boost skills set.

Java Intern | Slash Mark

Nov 2023 – Feb 2024

- Participated in the design and development of multiple small software features for various internal systems, including a Task Management System, Employee Management System, and Airline Reservation System using Java, JSP, and Hibernate.
 - Assisted in debugging and fixing minor issues during integration to ensure smooth deployments.
 - Performed unit testing and code reviews to ensure quality control and adherence to project timelines.
 - Collaborated with cross-functional teams to troubleshoot and organize bugs and feature requests.

Key Achievement: Optimized database queries in the Task Management System, reducing processing time by 20%.

Artificial Intelligence Intern | Coincent.ai

Sept 2022 – Oct 2022

- **Fashion MNIST Classification Project:** Developed a deep learning model to classify fashion items (clothing for men and women) using the Fashion MNIST dataset.
 - Utilized Keras and Numpy to build and fine-tune the model.
 - Employed machine learning techniques such as data augmentation and regularization to enhance model performance.
 - Applied Computer Vision techniques and Deep Learning (CNN) for feature extraction and classification tasks.
 - Evaluated model using accuracy metrics and improved model precision through cross-validation and hyperparameter tuning.

Key Achievement: Improved model accuracy by 15% through model optimization techniques.

Projects

Veggie-Wagon (An E-Commerce Platform) | Academic Project.

- Developed a small software feature for an e-commerce platform using **Java**, **Spring Boot**, and **React**. Managed backend and front-end integration, working with **MySQL** for data storage and retrieval.
- **Backend Development:** Utilized **Java**, **Spring Boot**, **Hibernate**, and **MySQL** to manage backend services and ensure efficient data processing.
- **Frontend Development:** Created a responsive and scalable front-end using **React**, **HTML**, **CSS**, and **JavaScript**, **React.js** for a seamless user experience.
 - Implemented unit testing to ensure the platform’s reliability during deployment.
 - Assisted in triaging and resolving integration issues for the responsive design across multiple platforms.
 - Documented technical processes for future platform enhancements.

Key Achievement: Reduced operational costs by 10% through optimizing data flow and query handling.

Fashion MNIST Classification

- Built a deep learning model for image classification using **Keras**, **NumPy**, and **TensorFlow**.
- Utilized cross-validation and hyperparameter tuning to optimize model performance.
- Documented the process for team collaboration and future improvements.

Education

Bachelor of Technology in Computer Science and Engineering **Oct 2020 – April 2024**

Parul Institute of Engineering & Technology, Limda, Gujarat

Secured with CGPA 7.97/10

Higher Secondary Education in MPC **Jun 2018 – March 2020**

SR Junior College, Rangaraopally, Telangana

Secured with marks 933/1000

Secondary School (SSC) **June 2017 – March 2018**

Telangana State Model School, Kathalapur, Telangana

Secured with CGPA 8.3/10

Certifications

Technical: C Programming, C++ Programming, Python, Java, Advance Java.

Microsoft: Azure AI-900, Az Fundamentals

Coursera: English for Carrer Development