**PAWAN SHARMA**

Chennai, Tamil Nadu • pa1sharma1802@gmail.com • (869) 529-7182 • https://www.linkedin.com/in/pa1sha

**EDUCATION**

**Vels University** Chennai, TN

Bachelor of TechnologyJuly 2025

Computer Science Engineering; Data Science

CGPA: 8.58/10.00

Relevant Coursework: Software Engineering; Operating Systems; DSA; Artificial Intelligence

**Sir Tashi Namgyal Senior Secondary School** Gangtok, Sikkim

CGPA: 8.48/10.00Apr 2019 – Jul 2021

**Modern Secondary School** Gangtok, Sikkim

CGPA: 8.84/10.00 (School Topper)May 2019

**PROJECTS**

**Embedding-Based Image Search Engine** [**LINK**](https://github.com/pawansharma18)Chennai, TN

Project Jan 2024 – Aug 2024

* Developed an image search engine using embedding-based techniques for accurate image retrieval based on content similarity.
* Leveraged AWS infrastructure: S3 for storage, EC2 for scalable compute, and ECR for Docker image management.
* Implemented CI/CD with GitHub Actions for automated deployment and container orchestration.
* Optimized storage and compute costs while ensuring high availability and performance.
* Automated data collection and setup processes for seamless deployment on AWS.

**Warehouse Apparel Detector Web App** [**LINK**](https://github.com/pawansharma18/warehouse_apparel.git)Chennai, TN

Project May 2024 – Jul 2024

* Developed a web app using YOLOv5 for apparel detection and classification in warehouses (helmets, vests, goggles, gloves, boots).
* Utilized Python, HTML, CSS, JavaScript and Flask for application development and web integration.
* Trained the model using Google Drive GPU with a dataset of 3,000 images.
* Validated API endpoints with Postman and debugged issues to ensure app functionality.
* The web app enhanced inventory management by automating the detection and classification of apparel items.

**Short Video Sharing Platform Big Data Analytics** [**LINK**](https://github.com/pawansharma18)Chennai, TN

Project Oct 2024 – Dec 2024

* Built Big Data pipelines using Kafka, Spark and HDFS to gain insights from users’ behavior and videos performance.
* Extended the data with HBase data lookups and introduced a process automation solution based on Apache Airflow.
* Contributed recommendations about top creators, user activity, and revenue sources that drove growth to the platform.

**PROFESSIONAL EXPERIENCE**

**Techoctanet Services Pvt. Limited |** [**LINK**](https://drive.google.com/file/d/1JEeNr9uVFDv73gKq2_blCb9R_SFf8bsy/view?usp=sharing)Chennai, TN

Python Developer- TraineeMay 2024 – Aug 2024

* Designed and Deployed an Flask-based Image Scraper which utilizes HTML, BeautifulSoup, CSS and JavaScript on Heroku for efficient extraction of images from web pages.
* Contributed in the debugging and improvement of lifecycle for software solutions and achieved a 15% decrease in the error rate during production.
* Was appreciated among others for technical competence and timely completion of the tasks.

**CodSoft |** [**LINK**](https://drive.google.com/file/d/1-ZYWrtI4DPLKR_LNSaZisCbOO4NyHJXv/view?usp=sharing)Chennai, TN

Web Developer- TraineeFeb 2024 – Mar 2024

* Gained hands-on experience with React, Node.js, HTML, CSS, and MongoDB.
* Contributed to a responsive web application project, enhancing user engagement.
* Enhanced website functionality and performance, achieving a 20% reduction in bounce rate.

**ACTIVITIES AND ACHIEVEMENTS**

**Science and Literary Club** Gangtok, Sikkim

Jan 2020

* Led event management and coordinated participation in the State Level Science Exhibition Competition.
* Awarded the Quality Excellence Award and Secondary School Topper Award for academic and extracurricular achievements.

**Smart India Hackathon** Chennai, TN

Aug 2024

* Participated in the Smart India Hackathon and developed an Automated Bus Scheduling and Route Management System Prototype for Delhi Transport Corporation, optimizing route efficiency and scheduling through real-time data analysis.

**Team Lead** Chennai, TN

Nov 2024

* Led a team for the final year project(Phase 1) on 'Warehouse Apparel Detection Web App,' developing an AI-driven tool using YOLOv5, showcasing project management skills in coordinating tasks and meeting deadlines

**CERTIFICATIONS**

* **AI/ML for Geodata Analysis- ISRO |** [**LINK**](https://drive.google.com/file/d/1256Q9EXTsW6zQ5egnyXgK7c6kQAVkh75/view?usp=sharing)Aug 2024
* **Oracle Cloud Infrastructure 2024 Generative AI Certified Professional |** [**LINK**](https://drive.google.com/file/d/1TiDJyXzCE4OQoplWwFMdqA4-7eFsw1Z3/view?usp=sharing)May 2024
* **Databases and SQL for Data Science with Python |** [**LINK**](https://drive.google.com/file/d/1TfvYwqhyZftnDN1kYqVDB88bgYoncB7F/view?usp=sharing)May 2024
* **Deep Learning Foundations |** [**LINK**](https://drive.google.com/file/d/1TTuC8eGsIId8o24FmIoO7aUuutId626e/view?usp=sharing)Jun 2024
* **Web Development |** [**LINK**](https://drive.google.com/file/d/1-ZYWrtI4DPLKR_LNSaZisCbOO4NyHJXv/view?usp=sharing)Mar 2024
* **Data Analytics and Data Science using Python |** [**LINK**](https://drive.google.com/file/d/11rDuLwwCArHMyHPiSc77FChQsQcVtU7R/view?usp=sharing)May 2023

**SKILLS**

* **Programming:** Java, Python, JavaScript (React.js, Node.js), C/C++
* **Databases:** MySQL, PostgreSQL, MongoDB
* **Cloud & DevOps:** AWS, GitHub Actions, CI/CD, Docker
* **Technical Skills:** DSA, OOAD, HTML/CSS, Flask, SQL, Python (Pandas/Numpy), Excel, Flutter
* **Soft Skills:** Problem-Solving, Time Management, Critical Thinking, Attention to Detail.
* **Languages:** Fluent in English, Hindi; Conversational Proficiency in Nepali.