Shivani Gupta

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PROFESSIONAL EXPERIENCE

Dell Technologies June 2024 – May 2025 | Bangalore, India
SDE intern (Multi System Monitoring)

- Analyzed the product codebase to identify required modifications for OS migration.
- Researched migration paths from SLES 12 to SLES 15 using SUSE documentation.
- Identified and integrated necessary Maven plugins and goals to automate the OS transition process.
- Conducted a proof of concept (PoC) for the OS upgrade, incorporating essential Maven plugins, dependencies, and goals for automation.
- Executed a staged OS upgrade (SLES 12.5 → 15.4 → 15.6), systematically resolving compatibility issues.
- Gained proficiency in database-specific annotations.
- Created and tested dummy data (1 million rows) to compare query performance between MongoDB and PostgreSQL.
- Migrated the database schema from MongoDB to PostgreSQL using Spring Boot
- Collaborated in an Agile environment using JIRA & Confluence, actively participating in daily stand-ups, sprint planning, and retrospectives.

Iha Consulting
Freelancer
Developed and deployed a certification site using HTML5, CSS3, and Bootstrap for Iha Consulting Pvt Ltd, now in production and generating significant revenue and profits for the company.

EDUCATION

M.Tech (Computer Science & Engineering) - (CPI- 8.1) 2023 – 2025 | Jabalpur
PDPM Indian Institute of Information Technology, Design and Manufacturing

B.Tech (Computer Science & Engineering) - (CGPA- 8.25) 2019 – 2023 | Jhansi
Bundelkhand University

Senior Secondary School 2019 | Agra
St. Clare's Sr. Sec. School

SKILLS

Programming Languages — C, C++, Java

Frameworks & Tools — Spring Boot, Maven, Docker, Kubernetes, Git, Postman

Web Technologies — HTML5, CSS3, Bootstrap

CS Fundamentals — Data Structures, OOPs, Operating System, DBMS

Databases — SQL

Soft Skill — Teamwork, Critical Thinking, Problem-Solving, Adaptability, Continuous Learning

PROJECTS

COVID-19 Sentiment Classification Using Bi-LSTM (Natural Language Processing)
Technologies Used: Python, TensorFlow, Word2Vec, NumPy, Pandas, NLTK, Keras
- Curated a dataset of tweets from 41,000 unique users during the COVID-19 pandemic.
- Implemented a Bi-LSTM model using NLP techniques for bidirectional tweet analysis.
- Analyzed sentiment to classify tweets as positive, negative, or neutral, achieving 60% accuracy

Cab Price Monitoring System (Spring Boot)
Technologies Used: RESTful APIs, Docker, IntelliJ IDEA, Spring Initializr.
- Formulated a microservices-based system with Spring Boot to expose APIs for price comparisons.
- Constructed a monitoring service to fetch, compare, and display the lowest price, ensuring optimal user experience and smooth API communication between three different applications
- Dockerized the application to ensure smooth deployment and scalability.

Face Recognition-Based Attendance System (Image Processing)
Technologies Used: OpenCV, Dlib, Face Recognition Libraries
- Engineered a face recognition attendance system leveraging Python libraries.
- Integrated real-time video capture to match faces with pre-registered students' images, achieving over 95% accuracy.
- Automated attendance recording in a CSV file upon successful face recognition.

ACHIEVEMENTS

- Qualified GATE in 2023
- Selected as a technical volunteer for ISRO's spacecraft exhibition.
- Led and coordinated successful events during the college sports fest.