SHIVANSHI SHARMA

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EDUCATIONAL QUALIFICATIONS

Thapar Institute of Engineering and Technology — **2025**
*MCA (Master's in Computer Application) – **CGPA- 9.33*** — *Patiala, Punjab*

Shaheed Rajguru College of Applied Sciences, University of Delhi — **2022**
*B.Sc. (H) Statistics – **CGPA – 8.62*** — *New Delhi*

D.A.V. Centenary Public School — **2019**
*12th – **Percentage - 93.8%*** — *Haridwar, Uttarakhand*

D.A.V. Centenary Public School — **2017**
*10th – **CGPA – 10.0*** — *Haridwar, Uttarakhand*

INTERNSHIPS

- **AI/ML INTERN- JACOBS** ↗ — **Mar 2025– ongoing**
  - Deep Learning Based Pothole Detection System (Python, YOLO, U-Net, EfficientNet, React, FastAPI): Designed and implemented a deep learning-based pothole detection system utilizing semantic segmentation (U-Net & EfficientNet) and instance segmentation (YOLOv8). Conducted dataset preparation, model training, performance evaluation, and real-time inference along with deployment using React (with TailwindCSS) for the frontend and FastAPI as the backend API server to aid infrastructure monitoring.
  - Sales & Product Performance Analytics (Power BI): Designed and developed interactive dashboard with filters, slicers, tooltips. Created DAX measures for KPIs, trend analysis, and profit calculations. Implemented data modelling to support dynamic visualizations.
- **IT INTERN- ITC LIMITED** ↗ — **June 2024– July 2024**
  - Improved server health reporting efficiency by 90% through automation, reducing manual input time of 3 hours.
  - Automated daily vehicle report generation, processing 500+ records per day by integrating raw ANPR data with master data, saving 4 hours of manual work daily.
  - Aided in implementing a real-time ML monitoring system to enhance safety protocol compliance in loading areas, generating prompt notifications for authorities.

PROJECTS

- **EXERCISE DETECTION & POSE CORRECTION SYSTEM- FitForm AI** — **July 2024**
  - Technologies and frameworks used are Python, OpenCV, Mediapipe, HTML, CSS, JavaScript, Flask, IDE - VS Code.
  - Utilized Mediapipe for pose estimation and OpenCV for video processing, ensuring accurate detection of key body landmarks.
  - Instant feedback system, helping users maintain correct form, reducing injury risks & increased exercise accuracy by 75%.
- **PRICE COMPARISION WEBSITE** — **April 2024**
  - Technologies and frameworks used are Python, Web Scraping, Flask, HTML, CSS, IDE - VS Code
  - A display page where the user can search any mobile phone and comparison page to display results with real time prices.
  - Scraped real-time data from Amazon and Flipkart for over 200 mobile phone models.
- **FAKE NEWS DETECTION** — **February 2024**
  - Implementation of multiple classifiers among which Random Forest achieved high accuracy (~90%)
  - Integration of advanced text preprocessing and feature extraction techniques.
  - Development of a user-friendly deployment interface using Streamlit.
- **DEEP LEARNING-BASED AUTISM CLASSIFICATION** — **Dec 2023**
  - Developed a CNN-based image classification model to categorise 'Autistic' and 'Non-Autistic' images.
  - Enhanced interpretability using techniques like Grad-CAM, LIME, and Integrated Gradients to explain predictions.
 - Deployed the model via Gradio, enabling real-time, user-friendly predictions.

POSITIONS OF RESPONSIBILITY

- **GENERAL SECRETARY –** Department of Statistics, SRCASW, Delhi — **August 2020 – March 2022**
  - Headed the team to organise most successful Technical Fest, 4+ successful workshops and seminars.
  - Handled other finance-related responsibilities.
- **QEEMLE MAGAZINE | CORE TEAM MEMBER**– SRCASW, Delhi — **September 2019 – March 2021**
  - Researched and analysed a multitude of existing pieces of literature on change-makers from various domains and framed insightful questions, and subsequently conducted 5+ interviews
  - Agent of change in dynamic Collaborations Committee

SKILLS

- **LANGUAGES**: Python, SQL, HTML, CSS, C++, C,
- **COURSEWORK**: DSA, Operating Systems, DBMS, OOPS concepts, Software Engineering, Machine Learning, AI, Computer Networks
- **DEVELOPER TOOLS**: VS Code, Jupyter Notebook, Google Collab, Dev C++
- **TECHNOLOGIES/FRAMEWORKS:** Power BI, Git/GitHub, Scikit-learn, NumPy, Pandas, Matplotlib.

CERTIFICATES

- SQL for Data Analytics- Udemy ↗ — **February 2023**
- Business Analytics and Process Management- Coursera ↗ — **Nov 2022**
- Tableau, Excel and ML using Python - STEPUP ANALYTICS ↗ — **May 2021**
- Python - CEPTA INFOTECH ↗ — **September 2019**