JATIN SHARMA

📞 +91-8817968077 — ✉ Email — 🔗 LinkedIn — ⭘ GitHub

Summary

I am a Data Analyst with a background in Computer Science and experience in SQL querying, Excel-based analysis, and statistical techniques. I work with structured datasets, perform root cause analysis, and evaluate performance metrics to generate data-driven insights.

Technical Skills

Languages: C/C++, Python, JavaScript, SQL, HTML, CSS
Tools & Technologies: ReactJS, Node.js, Express.js, TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Data Structures and Algorithms
Data Analysis: Advanced Excel (Pivot Tables, Lookup Functions), Data Cleaning, Data Visualization, Statistics, Power BI, Tableau, Git/Github

Projects

Biometric Cattle Identification — [GitHub]   **Jun 2025 – Sep 2025**
- Trained SAM (Segment Anything Model) on 5000+ cattle muzzle images, achieving 92% IoU for precise segmentation.
- Extracted biometric features using pretrained ResNet-50, automating data processing and reducing manual effort.
- Applied K-Means clustering and CNN-based classification to identify 6 key biometric features, improving identification accuracy by 25%.
- Generated actionable insights from cattle biometric data, enabling effective farm-level tracking and management.

PetPals: Pet Adoption Platform — [GitHub]   **Jul 2025 – Aug 2025**
- Developed a full-stack web application with Next.js & TypeScript, offering 20+ features and integrated Firebase Authentication.
- Implemented AI-driven adoption recommendations using Gemini API, improving recommendation accuracy by 40%.
- Designed a responsive UI with Tailwind CSS, achieving 95+ Lighthouse score for mobile accessibility.
- Optimized database and API queries to ensure seamless user experience and efficient data retrieval.

Hasthakshar: ISL Recognition — [GitHub]   **Apr 2025 – Jun 2025**
- Built a real-time ISL recognition system using OpenCV & MediaPipe, reducing translation latency to under 1s.
- Trained on a custom dataset of 300+ ISL hand gesture videos, improving recognition accuracy and robustness.
- Achieved 90% accuracy in gesture recognition, surpassing baseline models by 5%.
- Integrated the system into a simple interface for instant gesture-to-text translation, enabling practical usability.

Achievements & Certifications

- **Finalist in Zelestra X AWS ML Ascend Challenge 2025**, ranked among the top 50 teams out of 1500+ nationwide participants.
- **Reached the top 100 teams in the Shell AI Hackathon 2025**, competing against 900+ teams across India.
- **IBM Certified Generative AI Developer**, demonstrating proficiency in deploying AI solutions (Score: 90%).
- Certifications: IBM Cybersecurity, IBM AI & ML, IIT Madras AI & ML

Leadership & Extracurriculars

- Lead, Research and Development Department, Eureka Club - VIT Bhopal, managing a 5-member team and delivering 3 technical projects.
- Organized 2 college fests, coordinating logistics for 200+ participants and ensuring successful execution.

Education

B.Tech - Computer Science and Engineering   **Nov 2022 – Oct 2026**
VIT BHOPAL, Bhopal, Madhya Pradesh   *CGPA: 8.80*