


# JATIN SHARMA

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## Summary

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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

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**Languages:** C/C++, Python, JavaScript, SQL, HTML, CSS

**Tools & Technologies:** ReactJS, React Native, 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, Basic Statistics, Hypothesis Testing, Root Cause Analysis, Reporting

**Other:** Database Management, Technical Documentation, Stakeholder Communication

## Projects

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### 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.

### Hashtakshar: 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

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- **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

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- 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

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**B.Tech - Computer Science and Engineering**

**Nov 2022 – Oct 2026**

*VIT BHOPAL, Bhopal, Madhya Pradesh*

*CGPA: 8.80*