

# Sunil Kakde

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## SUMMARY

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Data Science-focused Computer Science undergraduate with expertise in machine learning and cross-platform mobile application development. Skilled in building end-to-end ML pipelines for real-world applications including fraud detection and IoT-based safety systems. Proficient in Python, Scikit-learn, XGBoost, and full-stack development. Seeking a role to apply data science methodologies and application development skills to create impactful, data-driven solutions.

## EXPERIENCE

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### Cognifyz Technologies

Remote

*Machine Learning Intern*

*Aug 2025 – Sep 2025*

- Developed and deployed machine learning models for predictive analytics using Python, Scikit-learn, and TensorFlow
- Engineered data preprocessing pipelines for large-scale datasets, improving data quality by 30%
- Implemented feature selection techniques that enhanced model accuracy by 15% and reduced training time
- Collaborated with cross-functional teams to integrate ML models into production systems
- Conducted model validation and performance analysis using cross-validation and statistical metrics

### Tablabs Tech

Ahmednagar, India

*Full Stack Web Developer Intern*

*Jul 2022 – Aug 2022*

- Engineered full-stack e-commerce prototype using React.js and Node.js serving 50+ product listings
- Implemented RESTful APIs and user authentication system serving 50+ product listings
- Optimized MySQL database queries, improving application performance by 25%
- Enhanced UI/UX with responsive design and cross-browser compatibility
- Collaborated in agile team environment to debug issues and enhance cross-browser compatibility

## PROJECTS

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### CardSec - Credit Card Fraud Detection System | *Python, Scikit-learn, Pandas, Ensemble Methods*

- Achieved 93.58% accuracy in fraud detection using Random Forest on imbalanced dataset (492 frauds in 284,807 transactions)
- Reduced false positives by 15% through strategic feature engineering on PCA-transformed financial data
- Outperformed baseline models by 12% in precision-recall metrics through ensemble techniques
- Compared multiple ML algorithms including Logistic Regression, SVM, and Decision Trees with comprehensive performance metrics

### AI-Based Rockfall Prediction System | *Python, XGBoost, Flask, IoT, REST APIs*

- Built ensemble ML model (XGBoost, Random Forest) with 92.3% accuracy for 72-hour rockfall warnings
- Engineered IoT-to-web data pipeline with Flask backend and 4-tier alert system using displacement and vibration sensors
- Reduced system cost by 70% and false alarms by 80% compared to traditional monitoring methods

### Samudrasarthi - Coastal Tourism Suitability App | *JAVA, XML, Firebase, INCOIS Data*

- Real-time beach safety recommendation app developed as Smart India Hackathon 2024 finalist project
- Utilized Flutter for cross-platform mobile UI and Flask for RESTful backend server logic
- Implemented geospatial alert system and suitability classification algorithms using INCOIS data
- Built full-stack mobile solution with Flutter frontend and Python/Flask backend architecture

### Face Recognition Attendance System | *Python, MTCNN, FaceNet, SQLite, Flask*

- Developed 95% accurate real-time attendance system using MTCNN/FaceNet, reducing attendance time by 80%
- Automated tracking saving 15+ hours monthly with SQLite backend and admin dashboard
- Won 1st Prize in TECHNOYASH-25 college competition for this project

### Job Portal Management System | *Java, Firebase, REST Principles, OOP*

- Console-based job portal with user authentication, job posting, and application tracking
- Integrated Firebase for real-time data storage, retrieval, and synchronization across users
- Applied REST API principles for job posting, application tracking, and user management operations

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, JavaScript, SQL, C++, Dart

**Machine Learning:** Scikit-learn, XGBoost, TensorFlow, Pandas, NumPy, Matplotlib, Feature Engineering, Predictive Modeling

**Web Development:** HTML5, CSS3, React.js, Node.js, Express.js, REST APIs, Flask

**Mobile Development:** Flutter, Android SDK, Dart, Cross-platform Development

**Databases:** MySQL, MongoDB, Firebase, SQLite, PostgreSQL, Query Optimization

**Tools & Platforms:** Git, GitHub, Docker, Jupyter, Google Colab, Postman, XAMPP

**Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Statistical Testing, EDA, Data Cleaning

**Soft Skills:** Problem-solving, Analytical Thinking, Team Collaboration, Technical Documentation, Agile Methodology

## EDUCATION

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**Shreeyash College of Engineering & Technology, Dr. BATU**

Chatrapati Sambhajinagar, India

*B.Tech. in Computer Science Engineering (Data Science)*

*Aug 2023 – Jun 2026 (Expected)*

– CGPA: 7.83/10.0

– Relevant Coursework: Machine Learning, Database Systems, Big Data Analytics, Data Structures & Algorithms, Web Technologies, Statistical Methods, Data Mining

## ACHIEVEMENTS & CERTIFICATIONS

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- **1st Prize - TECHNOYASH-25** for Face Recognition Attendance System (95% accuracy) (2025)
- **Microsoft Certified:** Career Essentials in Data Analysis by Microsoft and LinkedIn (Jul 2025)
- Machine Learning Fundamentals (Cognifyz Technologies internship) (Aug 2025)
- Java Programming Masterclass - Udemy (Mar 2024)
- Android App Development with Java - Udemy (2023)
- **Languages:** English (Professional), Hindi, Marathi