Sakshi Parashar
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SKILLS

- **Languages:** Python, JavaScript, HTML, CSS
- **Frameworks/ Libraries:** React.js, Pandas, NumPy, Matplotlib, Scikit learn
- **Databases:** MongoDB, MySQL
- **Tools:** Git, GitHub, Postman, VS Code, Jupyter Notebook
- **CS Fundamentals:** Data Structures & Algorithms, OOP, Operating Systems, Computer Networks

INTERNSHIP EXPERIENCE

Technical Intern **National Institute of Electronics and Information Technology, Punjab**
Sept 25 – Present

- Produced structured technical documentation, improving team review efficiency by ~20%.
- Conducted data analysis and created insight-driven reports, reducing manual processing time by 30%.
- Streamlined workflow documentation to enhance cross-team clarity and operational consistency.
- Assisted engineers with requirement analysis, version control, and system documentation.
- Contributed as a co-author to 3 research papers submitted for presentation at a conference scheduled for Jan 2026, including:
  - "Exploring the Use of ChatGPT as a supporting Tool for Classroom-Based Learning"
  - "Movie Recommendation System Based on Random Forest and Support Vector Machine AI models"
  - "Implementing a Cognitive Driven Adaptive System for Personalized Education"

PROJECT EXPERIENCE

MERN Voice-Assisted Web Application – Team Project

Technologies used- MongoDB, Express.js, React.js, Node.js, Web speech API

- Collaborated with a 3-member team to build a full-stack voice-enabled web app, improving user accessibility and reducing manual input by 50%.
- Led Web Speech API integration, increasing response speed by 20%.
- Contributed to backend API design and database optimization to enhance scalability and request handling.
- Implemented reusable UI components and streamlined frontend–backend integration.

Credit Card Fraud Detection System – Team Project

Technologies used- PostgreSQL, Python, Scikit-learn, Pandas, FastAPIs

- Worked with a 4-member team to build a fraud detection system using Random Forest and Isolation Forest models to identify anomalous transactions with greater accuracy.
- Took ownership of data preprocessing, feature engineering, and exploratory analysis, improving dataset quality and model reliability.

- Developed and deployed a FastAPI service to expose real-time prediction endpoints, enabling frictionless integration with external applications.
- Collaborated on PostgreSQL database design and optimization to ensure secure storage and fast retrieval of transaction data.

Crop Prediction Model – Team Project

Technologies used- Python, Scikit-Learn, Pandas, Numpy, Matplotlib, Jupyter Notebook

- Contributed to building an ML model achieving 85% prediction accuracy using regression techniques applied to 500+ agricultural data points.
- Improved model performance by 20% through hyperparameter tuning, validation workflows, and error analysis.
- Created data visualizations and summary reports to help the team interpret trends and communicate findings effectively.
- Assisted in developing a modular ML pipeline that streamlined preprocessing, training, and evaluation processes for future iterations.

EDUCATION

- Bachelor of Engineering in CSE(AIML) | Chandigarh University — *CGPA*: *8.49* | *2026*
- XII (CBSE) | Army Public School Hisar Cantt — *95.4%*| *2022*

CERTIFICATES

- AI for Entrepreneurship (**Intel**)| Link
- Introduction to Generative AI for Data Analysis (**Microsoft**)| Link
- **Oracle** Cloud Infrastructure 2024 Generative AI Certified Professional| Link

SCHOLARSHIPS

- **Reliance Foundation Scholarship** recipient during under graduation, awarded to 5000 students on a merit-cum-means basis all over India
- **CUCET Scholarship** recipient for under graduation, awarded based on scores of CUCET exam