

# Mahipal Pareek

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## Education

B.Tech – Computer Science Engineering  
Rajasthan Institute of Engineering & Technology | 07/2018 – 07/2022 | CGPA: 8.3

## Professional Summary

Adaptable and resourceful professional with experience in automation, data management, and software development. Skilled in Python, ML, NLP, cloud platforms, and telemetry solutions, with proven ability to optimize processes, lead teams, and deliver innovative projects. Dedicated to continuous learning and applying technology for real-world impact.

## Work Experience

### Service Engineer – DMT (Automation)

Sandvik Mining and Rock Technology | 05/2025 – Present | SKM, India

- Spearheaded development of the **Machine Checklist Portal**, an offline-first inspection system PWA for mining equipment, reducing manual reporting time by 40%. Implemented **service workers, IndexedDB caching, and background sync** to ensure full offline functionality and automatic resync.
- Built custom PDF reporting, telemetry data integration (SQL Server), and a modular architecture for maintainability.
- Enhanced inspection workflows in low-connectivity mining environments, ensuring business continuity and predictive maintenance.
- Optimized mining equipment performance through real-time data acquisition, diagnostics, and root cause analysis.
- Collaborated with multidisciplinary teams to support data-driven decision-making.

### Data Manager

N.G. Gadhiya | 08/2022 – 05/2025 | Rajsamand, India

- Worked with Hindustan Zinc Limited (HZL) as a client.
- Involved in techno-commercial evaluations, tendering processes, and contract documentation to align technical solutions with business requirements.
- Managed a team of 15 employees.

- Worked extensively on SAP, including cloud services and web applications.
- Introduced agile workflows to improve delivery speed

## Software Developer Intern

Easshipp | 05/2021 – 08/2022 | Jaipur, India

- Worked on Natural Language Processing (NLP) to improve model performance.

## Projects

### -Machine Checklist Portal – Offline-First PWA (2025)

Progressive Web App for mining equipment inspection.

Tech stack: **Flask, Service Workers, IndexedDB, Background Sync, SQL Server, HTML/CSS/JS.**

Supports offline data capture, auto-sync, and custom PDF reporting, reducing manual reporting time by 40%.

- Telemetry Solution for Mining Automation (2025) – Built a system to fetch data from SQL Server, display real-time equipment status on a web interface, and connect to Power BI dashboards.

- Job Portal (2022) – Developed a job portal using ReactJS (frontend) and Spring Boot (backend), deployed on AWS.

- Brain Tumor Detection (2020–21) – Built a CNN model to analyze MRI scans and classify tumor type.

- Facial Expression Recognition (2020) – Used OpenCV + CNN to predict expressions from live camera feed.

- Python Automation – JARVIS (2020) – Created a voice-controlled self-assistant using Python libraries.

- CNN Face Recognition (2020) – Built a system for person authentication using CNN models.

## Skills

- Programming & ML: Python, TensorFlow, Keras, NLP, Deep Learning, Generative AI
- Cloud & Tools: GCP, AWS, Telemetry Devices, Power BI, Docker, Jenkins, SonarCube
- Databases & Web: SQL, MongoDB, Java, Spring Boot, ReactJS, HTML, CSS

## Certifications

- Google Cloud Ready Facilitator (2021)

- Data Analysis Using Python – IBM (2021, lifetime)
- Python Programming – University of Michigan (2020)
- AI Concepts – IBM (2020)
- Docker Essentials – IBM Developer Skills Network (2020)
- TCS Career Edge (2020)

## **Achievements**

- Google Cloud Facilitator (2021)
- AMCAT Qualified (2020)
- National OOP Quiz Winner (2020)
- Reliance Football League – Man of the League & Highest Scorer (2020)
- GD Winner (2018)

## **Languages**

English – Full Professional Proficiency

Hindi – Full Professional Proficiency

## **Interests**

Football | Novels | Music | Exploring new tech | Project Management