Garima Mahato

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LinkedIn | GitHub | Portfolio | HuggingFace | Medium | YouTube

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Professional Summary

Results-driven and Tech-savvy AI Engineer with over 7 years of experience in developing AI solutions for healthcare and manufacturing domains. Skilled in leading projects with a track record of delivering high ROI (>100%). Proficient in machine learning, deep learning, and AI-driven automation. Experienced in Agile/Scrum environments with a strong foundation in software development.

- Experienced in IBM Career Education Program (J2EE, JS, DB2, SDLC).
- Strong analytical, problem-solving, and leadership skills.
- Passionate about AI research and development in real-world applications.

Education

Bachelor of Technology, Information Technology
BIT Sindri, Dhanbad | 2012 - 2016 | CGPA: 8.42/10

12th (Indian School Certificate Examination)
Council for Indian School Certificate Examination | 2012 | 90.5%

10th (Indian Council for Secondary Examination)
Council for Indian School Certificate Examination | 2010 | 89.57%

Professional Experience

Samsung Electro-mechanics Software India Pvt Ltd

Lead Engineer | Dec 2016 - Present

- Designed and developed AI solutions for manufacturing domains.
- Led AI projects with proven success in achieving ROI >100%.
- Expertise in machine learning, deep learning, computer vision, and NLP.
- Experience in managing and leading cross-functional AI teams.

TATA Consultancy Services

Systems Engineer | Dec 2016 - Dec 2019

- Developed end-to-end AI solutions for healthcare using Python.
- Applied machine learning, deep learning, computer vision, and NLP techniques.
- Worked in Agile/Scrum environments with frequently changing requirements.
- Delivered projects with 100% customer satisfaction.

Technical Skills

- **Programming Languages**: Python, Java
- **Web Technologies**: HTML, CSS, JavaScript (Basic), ReactJS (Beginner)
- **Databases**: SQL (Proficient), MongoDB (Beginner)
- **Frameworks & Tools**: Flask, Keras, Scikit-Learn, NumPy, Pandas, PyTorch

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Key Projects

Defect Detection and Auto-Labeling (Jan 2024 - Dec 2024)

- Designed an AI solution to detect and auto-label defects with high accuracy.
- Implemented image segmentation and auto-clustering for defect classification.

MLCC Machine Parameter Optimization (Jul 2021 - Dec 2023)

- Developed AI solutions to optimize machine parameters, reducing defects.
- Deployed in >10 machines, achieving ROI >100%.

Unified AI Platform (Feb 2020 – June 2021)

- Built a data preparation and modeling tool for ML and DL automation.
- Developed backend functionalities for data preprocessing and visualization.

Predicting Cancer Cell Ablation Procedure (Feb 2019 – May 2019)

- Built ML models to predict ablation requirements for cancer treatment.
- Created a Python module for 3D lesion visualization and model deployment using Flask API.
- Used Azure Databricks for data analysis and ML model development.

Workshops & Certifications

- **AI Agents Fundamentals** – Hugging Face (Mar 2025)
- **AI/ML for Geodata Analysis** – ISRO (Oct 2024)
- **Extensive AI Program for 2024** – The School of AI (Feb 2024)
- **Vision AI 4 Program for 2020** – The School of AI (Jan 2021)
- **Machine Learning by Stanford University** – Coursera (Nov 2019)

Achievements

- **2nd Runner Up Project at Samsung Electromechanics Tech Forum (2022)**
- **Certificate of Appreciation for Technical Excellence (2019)**
- **ILP Kudos for Outstanding Performance (2017)**
- **North America Alumni Association Scholarship (2013)**