

# ARSH MAHESHWARI

📞 +91 9983055000 | ✉ arsh.johari55000@gmail.com | LinkedIn [linkedin.com/in/arsh-maheshwari](https://www.linkedin.com/in/arsh-maheshwari)

## EDUCATION

**JIET Institute of Design and Technology** | Jodhpur, Rajasthan

September 2023 – May 2027

B. Tech Computer Science, Specialization: Artificial Intelligence and Machine Learning

**JESC (JIET Entrepreneurship and Startup Cell)** | JIET Institute of Design and Technology

Core Member

**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Machine Learning, System Design, Software Engineering, Object-Oriented Programming

**CGPA:** 8.39

## SKILLS

- **Programming:** Python, C/C++, JavaScript, SQL
- **Frameworks & Libraries:** FastAPI, Flask, React, Node.js, Tailwind CSS, PyTorch, Tensorflow, NumPy, Pandas, Matplotlib, Seaborn
- **AI & Machine Learning:** CNNs, NLP, Transformers, LLMs, Hugging Face, LangChain, LlamaIndex, spaCy, Model Training & Evaluation, Model Deployment
- **Developer Tools:** Git, GitHub, Docker, Supabase, Firebase, Hardhat, OpenZeppelin, Yarn, Vercel
- **Cloud & DevOps:** API Development, Microservices
- **Soft Skills:** Problem Solving, Research & Innovation, Cross-Functional Collaboration, Agile Development, Communication

## WORK EXPERIENCE

**Maxgen Technologies Pvt. Ltd:** *Machine Learning Intern*

June 2025 – August 2025

- Gained hands-on experience with core machine learning algorithms including Naïve Bayes, KNN, SVM, Decision Trees, Random Forest, HMM, Linear Regression, and XGBoost, along with data cleaning, model training, evaluation, and deployment using scikit-learn.
- Developed QuerySure as a capstone project by applying NLP and ML techniques to real-world insurance documents, while actively collaborating with peers from multiple colleges and contributing to team-based learning and problem solving.

## PROJECTS

**HueSAR: Deep Learning-based SAR Image Colorization for Geospatial Analysis**

- Designed and trained a CNN-based deep learning model using PyTorch to colorize grayscale SAR images to RGB images, achieving 91.26% accuracy.
- Constructed a geospatial data pipeline using Sentinel-1 & Sentinel-2 datasets (SAR, NDVI, RGB; ~ 2200.tif images) with Rasterio to preserve spatial and spectral consistency.
- Accelerated large-scale model training using NVIDIA CUDA.

**MagnifyDX: Multi-Stage Medical Image Enhancement for Diagnostic Clarity**

- Developed a digital image processing pipeline to enhance MRI, CT-scan, and X-ray images, improving visual clarity and structural definition for diagnostic use.
- Applied CLAHE with modality-specific clip limits, along with colormap transformations and gamma correction, to highlight critical anatomical details and improve contrast.
- Designed the system for practical adoption in diagnostic centers, radiology departments, and medical research, supporting medical image analysis and clinical studies.

## **QuerySure: AI-Powered Insurance Policy Clause Analysis & Claim Validation System**

- Built an NLP-driven system to analyse lengthy health insurance policy clause documents and predict claim approval or rejection based on user-described scenarios written in natural language.
- Implemented a document processing pipeline using PyMuPDF, NTLK, regex-based feature extraction, and DistilBERT to match user queries against policy clauses.
- Validated the system on real-world policy documents from major insurers (Bajaj, Chola, Edelweiss, HDFC Ergo, ICICI) returning their status.

## **ACHIEVEMENTS**

---

- **Winner** - Hack-Arya-Verse, Arya College of Engineering & IT, Jaipur
- **2nd Runners-up** – Innovate-A-Thon 3.0, BIT Mesra, Ranchi
- **Top-10** – Hackground India 2K25, TechVerse NEXUS
- **Top-5** – Reckon 6.0, JIET, Jodhpur
- **Shortlisted** – Smart India Hackathon 2024, Smart India Hackathon 2025