GARVIT ARORA

AI Engineering / Software Development / Business Systems
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EDUCATION

SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India
B.Tech in Computer Science and Business Systems | Expected Graduation: 2027 | CGPA: 9.11/10

PROFESSIONAL EXPERIENCE

1. Inventic.ai â AI Engineer Intern (October 2026 - Present | Remote)
- Contributing to the development and implementation of AI-based solutions for practical applications.
- Exploring and applying emerging AI technologies through experimentation and iterative improvement.

2. Defence Research and Development Organisation (DRDO - IRDE) â AI & Computer Vision Intern (Jun 2026 - Jul 2026 | Dehr
- Developed a Python-based image-processing pipeline to preprocess and enhance underwater periscope imagery.
- Evaluated image restoration and super-resolution techniques under varying conditions and validated workflows.

3. Greenheck Pvt. Ltd. â Product & Systems Intern (December 2025 - January 2026 | Gurugram, Haryana)
- Analyzed SAP ERP workflows and applied rule-based validation logic to support data consistency.
- Performed root-cause analysis of Bill of Materials (BOM) configuration issues and designed decision logic.

4. Sambandh Health Foundation â Operations & Data Intern (June 2025 | Gurugram, Haryana)
- Cleaned, transformed, and organized multi-source data; conducted EDA and root-cause bottleneck analysis.

SELECTED ENGINEERING PROJECTS

- Self-Pruning Neural Network (Python, PyTorch, CIFAR-10): Custom PrunableLinear layers with learnable sigmoid gates and L1 sparsity penalty. Documented report result at lambda = 1e-4: 54.19% test accuracy, 33.42% sparsity.
- AtomQuest Goal Setting & Tracking Portal (Next.js, TypeScript, Tailwind, NextAuth, Recharts, Zod): Hackathon portal uniting employee goal workflows, manager approvals, quarterly tracking, audit logs, and CSV/XLSX reporting.
- Credit Card Fraud Detection (Python, Scikit-learn, Random Forest, SMOTE, Pandas): Imbalance-aware classification evaluated with precision, recall, F1-score, ROC-AUC, and confusion matrices.
- DeepSafe (Python, OpenCV, TensorFlow, Streamlit): Research prototype for face extraction and CNN training pipeline.
- Fitness Lifestyle Impact Analyzer (React, TypeScript, Node.js, Express, PostgreSQL, Tableau): Full-stack analytics.

TECHNICAL SKILLS

Languages: Python, Java, SQL, C++ | ML & AI: PyTorch, TensorFlow, Scikit-learn, OpenCV, Random Forest, SMOTE, CV, GenAI
Analytics & BI: Data Cleaning, EDA, Root Cause Analysis, Tableau, Excel | Enterprise & DB: PostgreSQL, SAP ERP, BOM
Web & Tools: Next.js, React, TypeScript, Node.js, Express, Tailwind CSS, Streamlit, Pandas, NumPy, Git, Docker, Jupyter

CERTIFICATIONS

- Google Data Analytics (Coursera | June 2026)
- Salesforce Tableau Desktop Foundation (Salesforce | March 2026)
- Advanced SQL & DBMS (Scaler | May 2025)
- SAP Generative AI Developer (SAP | March 2026 - March 2027)

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