

DHEERAJ NAIR

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EDUCATION

MIT ADT University

Pune, IN

B.Tech in Computer Science and Engineering

2022 – 2026

Sanjay Ghodawat International School

Kolhapur, MH

Senior Secondary (XII), CBSE

2022

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript

Frameworks/Tools: PyTorch, TensorFlow, Scikit-learn, OpenCV, MediaPipe

Databases: SQL, MySQL

Version Control: Git, GitHub, VS Code

Core Skills: Data Structures & Algorithms, AI/ML, Deep Learning, Neural Networks, Generative AI

EXPERIENCE

Data Science Intern

Jan 2025 – Mar 2025

Remote

AICTE

- Developed predictive ML models and performed EDA to identify actionable business insights.
- Built and optimized data pipelines using Python (Pandas, NumPy) and SQL for large-scale datasets.
- Visualized trends using Matplotlib/Seaborn to present findings clearly to non-technical stakeholders.

AI-ML Virtual Intern

Oct 2024 – Dec 2024

Remote

AICTE

- Implemented ML models for classification and regression tasks with measurable performance gains.
- Worked with AI/ML frameworks including TensorFlow, PyTorch, and Scikit-learn to build end-to-end pipelines.
- Developed small automation scripts that streamlined dataset preprocessing and model evaluation.

PROJECTS

GPT Model Implementation

May 2025

- Built a minimal GPT-like transformer model from scratch using PyTorch with custom tokenization and positional encoding.
- Implemented multi-head self-attention, feed-forward layers, and layer normalization to replicate GPT architecture.
- Created an end-to-end training pipeline with optimizer scheduling, batching, and loss tracking.
- Enabled text generation using autoregressive decoding and temperature-based sampling.

Social Sphere

May 2025

- Developed a full-stack Java EE social platform using Servlets, JSP, and H2 Database.
- Implemented secure authentication, session management, role-based access, and persistent login.
- Built scalable modules for post creation, commenting, notifications, and profile management.
- Designed responsive UI with HTML, CSS, JavaScript, and implemented input validation and form handling.
- Optimized database schema and queries, reducing read/write latency by 25%.

CERTIFICATIONS

- Neural Networks and Deep Learning – Deeplearning.ai (2025)
- Generative AI – IBM (2025)
- Introduction to Generative AI – Google (2025)
- AI Essentials – Google (2024)

ACHIEVEMENTS

Awarded “IT Wizkard Award” for excellence in computing (2020).

Vice President – Java Brewers Club: Led events, workshops, and coding competitions.