

HENA KHARWA

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Education

Stevens Institute of Technology

Masters of Science in Applied Artificial Intelligence — GPA : 4.0

Sep. 2024 – May 2026

Hoboken, New Jersey, United States

Charotar University of Science and Technology

Bachelors of Technology in Computer Engineering — GPA : 3.84/4

Oct. 2020 – May 2024

Anand, Gujarat, India

Relevant Coursework

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Computer Vision
- Big Data Analytics
- Gen AI in BI
- Cloud Computing
- GPU Programming

Experience

Dhyey Technologies - TechXi

AI/ML Intern

Jan 2024 – June 2024

Vadodara, Gujarat, India

- Developed an AI-driven health diagnostic system using GPU-optimized deep neural networks and real-time data pipelines with Kafka and Redis Streams, improving performance by 20% and model accuracy by 40%.
- Deployed ML models via Django, Fast & Flask APIs for 200+ users with Docker, Azure, and containerized deployment.

Charotar University of Science and Technology

Machine Learning Intern

May 2023 – July 2023

Anand, Gujarat, India

- Engineered hybrid recommender combining collaborative/content-based filtering using TensorFlow, Kafka, ETL pipelines (PostgreSQL), and deep learning (PyTorch, CuBLAS) to cut misclassification by 25%.
- Optimized recommendation algorithms for e-commerce platforms (Amazon), boosting user engagement 20% and conversion rates 5% via personalized suggestions and rigorous model evaluation.

Enlighten Infosystems

ML and Python Intern

May 2022 – July 2022

Vadodara, Gujarat, India

- Devised ML-based expert system automating decision-making, reducing time by 30%, boosting system performance 10% via high-performance GPU computing and built intuitive GUIs achieving 90% user satisfaction.
- Applied image processing techniques to analyze visual data, improving accuracy 15%, reducing processing time 25%

Projects

AI-Driven Stock Recommendation and Sentiment Analysis | Python, LLMs, Deep Learning

May 2025

- Engineered LSTM & transformer pipelines with Ollama integration in Python, performing feature engineering on technical indicators and real-time NLP sentiment analysis of financial news and social media.
- Built and deployed a dashboard (Daily Trend, Sentiment Distribution, Source Comparison, AI Summary, Investment Assistant) on Azure serverless, leveraging Docker CI/CD and Git/GitHub.

AI-Driven Personalized Alumni Engagement System | Python, Quart, Azure AI Foundry, OpenAI, React

April 2025

- Engineered a robust asynchronous backend API using Python (Quart) and Node.js with scalable microservices, integrating modern AI workflows via OpenAI and leveraging vector databases for dynamic alumni data analysis and personalized campaign targeting—utilizing Git and GitHub for version control and streamlined remote collaboration.
- Built a web app with React for real-time campaign engagement with dual processing modes and human-in-the-loop support, deployed with serverless architectures, and presented the project to the DAE team at Stevens.

PrepRight: AI Powered Interview Preparation App | Python, Prompt Engineering, LLMs

Jan 2025

- Leveraged GitHub Copilot and OpenAI API with prompt engineering to build an AI platform assessing 500+ candidates, boosting readiness by 30% and deploying via Flask API on AWS with automated feedback.
- Tokenized and vectorized 1,000+ resumes and job descriptions using NLP, boosting assessment accuracy by 25% and showcasing advanced proficiency in AI tools and software development.

Technical Skills

Languages: C, C++, Java, Python, HTML, CSS, JavaScript, SQL, Shell Scripting

Developer Tools: VS Code, Eclipse, AWS, Azure, GCP, Docker, Kubernetes, PowerBI, Oracle, Hadoop

Technologies/Frameworks: Flask, Django, Fast API, AutoML TensorFlow, CuBLAS, Pytorch, MLflow, cuDNN, JAX

Leadership / Extracurricular

Stevens Institute of Technology

Research Assistant

April 2025 – Present

Hoboken, New Jersey, United States

- Leading development of an AI Compliance system to parse, interpret, and enforce legal rules and regulations from the USC and CFR Codes, leveraging Python and machine learning to automate policy extraction and violation detection.