HENA KHARWA

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Education

Stevens Institute of Technology   **Sept. 2024 – Dec 2025**
Masters of Science in Applied Artificial Intelligence   *Hoboken, New Jersey, USA*

Charotar University of Science and Technology   **Oct. 2020 – May 2024**
Bachelors of Technology in Computer Engineering   *Anand, Gujarat, India*

Relevant Coursework

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

Experience

Dhyey Technologies - TechXi   **Jan 2024 – June 2024**
AI/ML Intern   *Vadodara, Gujarat, India*
- Developed an 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   **May 2023 – July 2023**
Machine Learning Intern   *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   **May 2022 – July 2022**
ML and Python Intern   *Vadodara, Gujarat, India*
- Devised ML-based expert system automating decision-making, reducing time by 30% and boosting system performance 10% via high-performance GPU computing.
- Applied image processing techniques to analyze visual data, improving accuracy 15%, reducing processing time 25%, and built intuitive GUIs achieving 90% user satisfaction.

Projects

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.

Source Code Classification / *Python, Machine Learning, Deep Learning, Google Colab*   **Dec 2024**
- Designed a scalable data pipeline using LRCN for source code classification (C/C++, Python, Java, JavaScript, C#), achieving 96% language and 88% algorithm accuracy with CNN/RNNs and robust testing.
- Scraped and preprocessed GitHub repositories, tokenized code for embedding, and leveraged deep learning to automate code understanding, software development, intelligent programming assistants, and educational applications.

Isolated Sign Language Recognition / *Python, Machine Learning, Deep Learning, Git, Google Colab*   **Nov 2022**
- Developed a system translating sign language gestures into text/speech, enabling communication for deaf or hard-of-hearing individuals with 92% accuracy on 50 signs from 500+ samples, enhancing accessibility by 40%.
- Optimized model training via GPU parallelism using computer vision and DL frameworks (TensorFlow, PyTorch); published in IEEE Access (July 2024), advancing assistive tech. [Link]

Technical Skills

Languages: C, C++, Java, Python, HTML, CSS, JavaScript, SQL, PostgreSQL, Shell Scripting
Developer Tools: VS Code, Eclipse, AWS, Azure, GCP, CI/CD, Docker, Kubernetes, PowerBI, Oracle, Microsoft tools, React, Streamlit, Hadoop
Operating Systems: Windows, Linux, Ubuntu
Technologies/Frameworks: GPU Models, Flask, Django, Fast API CUDA, AutoML TensorFlow, CuBLAS, Pytorch, Keras, MLflow, cuDNN, JAX

Certifications

Introduction to Generative AI, AI for Everyone, AI for India 2.0, Artificial Intelligence Virtual Experience Program, Machine Learning, Machine Learning and Big Data Fundamentals, and Python Programming.