

Hemantha Krishna Bharadwaj

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Education

Georgia Institute of Technology, Atlanta, GA

MS Electrical and Computer Engineering, DSP-Machine Learning Specialization (Aug 2022 – May 2024)

Teaching Assistant, OMSCS Machine Learning

GPA: 3.83/4.0

Birla Institute of Technology and Science [BITS], Pilani, India

B. Eng. Electrical and Electronics (Aug 2018 – May 2022)

GPA: 9.3/10.0

Skills

Programming Languages: Python, C, C++

Machine Learning: PyTorch, TensorFlow, Scikit-learn

Retrieval & Search: Vector Databases, Semantic and Hybrid Search, Embedding Models

NLP & LLMs: OpenAI API, OpenAI Evals, Langchain, Claude API, Azure AI Studio, HuggingFace, DSPy

Cloud & Deployment: Azure AI Studio, Git, Docker

Experience

Machine Learning Data Scientist

RippleWorx (Jun 2024 – Present)

Developed and deployed LLM systems for diverse applications, incorporating plug-and-play LLM subsystems for output generation and prompt optimization.

Engineered hybrid search engines, improving search quality and hit rate by 80%.

Implemented vector databases and retrieval algorithms, reducing response times by 50%.

Deployed scalable, production-ready ML systems using Azure AI Studio.

Generative AI Technical Lead

Airlinq (Jul 2023 – Jan 2024)

Led a cross-functional team in developing AI systems enabling personalized conversations for Indian automotive OEMs.

Leveraged LLMs and retrieval augmented generation to create tailored experiences for users and service engineers.

Publications

H. K. Bharadwaj et al., "A Review on the Role of Machine Learning in Enabling IoT Based Healthcare Applications," in IEEE Access, vol. 9. [Link](#) [150+ citations]