Contact

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chiragnagendra.vercel.app/ (Portfolio)
chiragnagendra.vercel.app/ (Portfolio)

Top Skills

System Architecture
React Hooks
Critical Thinking

Certifications

Power BI: Dashboards for Beginners
Introduction to Programming Using Python
Power BI Essential Training
Python (Basic) Certificate
Machine learning (Stanford university with full financial aid)

Publications

Card-less ATM Transaction Using Biometric And Face Recognition– A Survey
Card-Less ATM Transaction using Biometric and Face Recognition – A Review

Chirag Nagendra

ML Engineer @Soltech | Lead Full-Stack Developer | ML & NLP Specialist
Boston, Massachusetts, United States

Summary

Hello! I'm Chirag Nagendra . ML Engineer and Information Science graduate from UMass Boston, specializing in advanced transformer-based NLP and machine learning. Experienced in designing and deploying production-scale sentiment analysis models using BERT and RoBERTa, with deep expertise in building scalable NLP pipelines, vector databases, and state-of-the-art retrieval-augmented generation through prompt engineering. Google Cloud Certified in Generative AI and passionate about leveraging AI to solve complex, real-world problems.

Proven full-stack developer with leadership experience in building responsive, user-centric applications and analytics dashboards using Vue and Node.js. Committed to continuous learning, collaboration, and delivering impactful AI-driven solutions that push the boundaries of innovation. Open to networking and new opportunities that drive technological advancement and meaningful change.

Experience

SOLTECH
Machine Learning Engineer
December 2024 - Present (1 year 2 months)
United States

• Developed and fine-tuned deep learning models to enhance image recognition and classification for products, improving the accuracy of automated product tagging by 20%.
• Integrated and optimized large-scale language models to enhance natural language processing capabilities for pet-related customer queries, improving response accuracy and speed.
• Designed algorithms for analyzing and predicting customer behavior patterns based on purchase history, enabling targeted marketing strategies and increasing customer engagement by 15%.

• Utilized TensorFlow and PyTorch to build and deploy custom models for real-time inventory management and demand forecasting, resulting in a 10% reduction in stockouts.
• Led the development of a GraphQL-based API for efficient querying of pet product data, resulting in a 25% improvement in data retrieval speed for user-facing applications.

Anamii AG
Lead Software Engineer
November 2020 - November 2024 (4 years 1 month)
Zurich, Switzerland

• Led the design and implementation of Python-driven front-end solutions using Vue.js and Nuxt.js for real-time risk monitoring, improving UI responsiveness and accelerating decision-making for risk analysts by 20%.
• Improved and deployed scalable ML models for predictive maintenance and operational optimization, utilizing Python, TensorFlow, and scikit-learn.
• Implemented Spark and Hive for processing large datasets from the company’s extensive customer and inventory databases, reducing data processing times by 15%.
• Enhanced infrastructure using Terraform for automated deployment of machine learning environments, ensuring consistency and reliability in model training and deployment.

Infosys
Artificial Intelligence Engineer
September 2019 - November 2020 (1 year 3 months)
Mysore, Karnataka, India

• Attained 85% accuracy in mobile-based skin disease detection by implementing TensorFlow and convolutional neural networks, effectively enhancing diagnostic precision and contributing to advancements in healthcare technology.
• Collaborated with a team of data scientists to develop noise reduction algorithms using Python and scikit-learn for heart
condition classification, enhancing diagnostic accuracy by 10%.
• Improved COVID-19 lung classification accuracy by 20% by implementing and ensemble machine learning and deep learning models in Python, utilizing CNNs for COVID/Not-COVID X-ray analysis.

CDAC,Noida
Research Intern
February 2019 - July 2019 (6 months)

1. Enhanced data analysis for a Karnataka State Funded Project using unsupervised learning, improving interpretation accuracy by 30%.
2. Reduced analysis time by 30% by removing redundancies in high-dimensional datasets.
3. Delivered TensorFlow models for predictive analytics, increasing urban planning forecast accuracy by 12%.
4. Designed interactive dashboards and web apps with React/Next.js, Boosted stakeholder access to insights by 15%.

Education

UMass Boston

Masters in Information Science, Information Science · (January 2023 - December 2024)

Vidya Vardhaka College of Engineering, MYSORE

Bachelor of Engineering, Computer Science · (2016 - 2020)