

Keerthana Devi Govindaraj

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EDUCATION

Northeastern University

Master of Science in Software Engineering Systems | GPA: 3.85/4.0

Boston, MA
Expected: December 2027

Relevant Coursework: Web Development, Concepts of Object Oriented Design

SRM Institute of Science and Technology

India

Bachelor of Technology in Electronics and Computer Engineering | GPA: 9/10
2024

October

SKILLS AND CERTIFICATIONS

Programming Languages: Java, Python, JavaScript, TypeScript, C++, HTML, CSS

Databases: MySQL, MongoDB

Frontend Development: React.js, Redux, Bootstrap, Figma

Backend Development: Django, Node.js, REST APIs, Express.js, Restful APIs

Libraries: TensorFlow, PyTorch, Scikit-Learn, Keras

INTERNSHIP

Aican Automate

Machine Learning Intern
2023

Chennai, India
January 2023 – March

- Designed and implemented an NLP pipeline to preprocess unstructured text using TF-IDF and N-grams, enabling efficient feature extraction
- Trained and evaluated classification models (Logistic Regression, Random Forest), achieving 87% precision on test datasets
- Improved automation reliability by building scalable preprocessing modules for real-world data

Visanka Technologies

UI/UX Intern
2023

Chennai, India
April 2023 – June

- Built high-fidelity interactive prototypes using Figma and Adobe XD, improving design validation speed.
- Applied WCAG 2.1 accessibility standards, ensuring usability for a diverse user base
- Delivered reusable UI components, cutting design iteration cycles by 25%

PROJECTS

Query Performance Analyzer | [Research Paper](#)

Tech Stack: Django, Python, PostgreSQL

- Engineered a query performance analysis tool, reducing average SQL execution time by 30% across dev/test/prod environments
- Integrated real-time data visualization dashboards to highlight bottlenecks and execution trends
- Enhanced UI for usability, resulting in faster adoption by development teams

Eye Tracking Based ASD Diagnosis | [GitHub](#) | [Research Paper](#)

Tech Stack: CNN, TensorFlow, PCA, OpenCV

- Applied deep learning (CNNs + PCA) for early detection of Autism Spectrum Disorder from eye-tracking datasets
- Leveraged **transfer learning**, improving model accuracy by **20%** compared to baseline
- Conducted comprehensive preprocessing to clean and organize unstructured eye-tracking data

GLIMPSE: AI-Powered Sports Commentary Platform | [GitHub](#) | [Live Demo](#)

React, Redux, Node.js, MongoDB, Google Gemini API, Material-UI, Vercel | October 2024 – December 2024

- Developed frontend UI and commentary page for full-stack sports commentary platform in **4-person team**, implementing **15+ React components** with Material-UI and Redux state management
- Engineered real-time AI commentary generation feature integrating **Google Gemini API**, reducing manual commentary creation time by **80%** and processing **100+ requests/day**
- Led backend deployment to **Vercel** with CI/CD pipeline, achieving **99.8% uptime** and **<2-second response time** for live commentary across **2 sports** (cricket/football)