

Kavisha Parikh

(929) 758-0921 | kavishaparikh9@gmail.com | github.com/kaviiee | linkedin.com/in/parikhkavisha

EDUCATION

University of Massachusetts Amherst <i>Master of Science in Computer Science</i> Coursework: Neural Networks, Advanced Database Systems, Data Visualization, Software Engineering, Network Security, Cryptography.	Sep 2024 - May 2026 GPA: 3.96/4.0
Gujarat Technological University <i>Bachelor of Engineering in Information Technology</i> Coursework: Data Structures and Algorithms, Computer Architecture, Operating Systems.	Sep 2020 - Aug 2024
Indian Institute of Technology Madras <i>Bachelor of Science in Data Science</i> Coursework: Machine Learning, Deep Learning, Math for ML, Stats for ML, AI Search Methods, Data Structures.	Sep 2021 - Aug 2024

SKILLS

Programming Languages: Python, Java, SQL, C#, JavaScript, C++, HTML, CSS
Frameworks: PyTorch, scikit-learn, NumPy, Pandas, D3.js, React.js, Node.js, Express.js, Vue.js, ASP.NET Core, Flask, FastAPI
Databases & Storage: PostgreSQL, MySQL, MongoDB, SQLite, Redis
Tools and Platforms: AWS (EC2, S3, SQS), Docker, Git, GitHub, VSCode, google colab, JIRA, Postman, Linux
Concepts: DSA, OOP, Distributed Systems, System Design, Microservices, Unit Testing, End-to-end Testing, TDD, CI/CD

WORK EXPERIENCE

Software Engineer Intern - Mercury Infoway	Dec 2023 - May 2024
• Designed and implemented 4 core modules for a national e-governance platform using C# and ASP.NET Core MVC. • Established role-based access control (RBAC) to enable fine-grained permissions for 12 roles and securely support thousands of users. • Accelerated dashboard page load time by optimizing SQL queries and introducing caching . • Increased unit and integration test coverage from 45% to 80% , uncovering 7 critical regression bugs before production. • Collaborated in cross-functional Agile sprints and conducted code reviews to deliver user-focused features across the SDLC .	

PROJECTS

Badminton Shot and Player Movement Prediction	
• Designed and implemented an R-GCN with attention to predict player movement trajectories and shot types. • Modeled temporal and spatial dependencies on 43K+ strokes (4,325 rallies) using relational graph-based modeling. • Built end-to-end ML pipelines for preprocessing, training, evaluation, and experimentation. • Reduced model parameters by 44.58% compared to state-of-the-art DyMF model, while maintaining comparable predictive performance.	
RepoRadar - Codebase Summarizer (HackUMass XIII)	Live app
• Engineered a code summarization pipeline that clones, parses, and chunks Python repositories using AST traversal , extracts imports, functions, and classes, and feeds them into a schema-constrained LLM to generate structured summaries across 150+ file codebases . • Constructed interactive dependency graphs from parsed output using Pyvis and NetworkX , to visualize module-level relationships across hundreds of components. • Devised caching and fallback mechanisms for LLM API calls , reducing response latency by 80% and cutting API costs by 40% for cached content and deployed the system on AWS Elastic Beanstalk with auto-scaling to enable real-time analysis.	

E-Commerce Shopper's Behaviour Prediction

- Built an end-to-end machine learning **classification pipeline** to predict purchase intent from **user behavior data**.
- Performed data **cleaning, feature engineering, model selection**, and **hyperparameter tuning** using Python ML libraries.
- Achieved **70% prediction accuracy**, evaluating models with quantitative metrics to guide decisions.

Business Analytics Capstone - ABC Medical and Surgical

- Analyzed 6 months of sales and procurement data to **identify inefficiencies and demand patterns**.
- Used data **visualization** and **quantitative analysis** in **Power BI** to surface trends and operational bottlenecks.
- Collaborated with an onsite manager to translate findings into **actionable recommendations** for improving store efficiency.

CERTIFICATES

- Prompt Engineering and Programming with OpenAI and LangChain from Columbia+