

TIRTH SHAH

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EDUCATION

- **California State University Los Angeles** Aug 2024 – May 2026
Master's of Science in Computer Science
Los Angeles, California
 - GPA: 4.00/4.00
 - **Relevant Coursework:** Advanced Data Structures & Algorithms; Big Data; Advanced Machine Learning & Deep Learning; Advanced Software Engineering; Advanced Web Programming

PROFESSIONAL EXPERIENCE

- **ONLC Training Centers** June 2025 – Present
AI Developer Co-Op Remote, USA
 - Reduced content production time and manual workload across teams by building and deploying a live enterprise workflow with **n8n** and launching eLearning pipelines that transformed **Markdown** into engaging assets using **Heygen** and **ElevenLabs**.
 - Delivered contextual knowledge retrieval in production by shipping a modular, **agent-driven** architecture supporting real-time decisions and enterprise-scale knowledge interaction; engineered internal **AI** tools with **Python**, **SQL**, and **OpenAI APIs**; implemented **semantic search**, **RAG**, and generative agents via **LangChain**, **GraphRAG**, and **Hugging Face**; and integrated **Neo4j** for graph reasoning and **Postgres** for structured storage.
 - Elevated communication for thousands of learners and business stakeholders, as indicated by accessible visuals, presentations, and training materials, by collaborating directly with ONLC's leadership to translate complex AI concepts into clear formats.
- **California State University Los Angeles** Sept 2024 – Present
Research Assistant Los Angeles, California
 - Advanced AI research efforts, as evidenced by outcomes in advanced data analysis, by evaluating literature, training **machine learning models**, and executing **simulations**.
 - Disseminated findings effectively to academic and professional audiences, as indicated by co-authored technical reports and research presentations, by co-authoring on technical reports and research presentations.
- **Prayosha Food Services Pvt. Ltd.** Jan 2024 – May 2024
Data Science Intern Gujarat, India
 - Elevated predictive accuracy and shortened training cycles, as measured by improving accuracy by **20%** and cutting training time by **30%**, by engineering and optimizing deep learning models using **TensorFlow** and **PyTorch** with advanced preprocessing, feature engineering, and dimensionality reduction, and integrating **Hadoop** to handle large-scale datasets.
 - Accelerated stakeholder decision cycles, as measured by a **25%** improvement, by building interactive **Tableau** dashboards that translated complex datasets into actionable visuals.

ACADEMIC PROJECTS

- **Agentic AI Application Development using Langflow** Jan 2025 – Feb 2025
 - Delivered an agentic AI-powered PDF summarizer with **RAG** capabilities, as evidenced by a working design using **Langflow's** drag-and-drop interface, by designing the solution.
 - Enabled on-demand summary generation, as indicated by a multi-agent system that managed chat processing, database queries (**Astra DB**), and web searches, by implementing the system.
 - Streamlined workflow execution, as shown by integration of **Groq** for LLM, **Astra DB** for vector storage, and **Nvidia** for embeddings, by integrating these components.
- **Context-Aware Grammar Correction System** May 2024 – June 2024
 - Produced real-time contextual language suggestions, as evidenced by a grammar correction model using transformer-based architectures (**BERT** and **T5**), by building the model.
 - Enhanced experimentation and feedback, as indicated by an intuitive user interface supporting personalization at scale, by implementing the interface.
- **Stock Price Alert** Jan 2022 – May 2022
 - Shortened response to price movements, as measured by reducing time-to-action on price movements by **25%**, by building a scalable system integrating **Python** with financial APIs for real-time stock alerts.

TECHNICAL SKILLS

- **Programming/Scripting:** Python, C++, HTML/CSS, JavaScript, PHP
- **Skills:** AWS Bedrock, GenAI, GraphRAG, LangGraph, REFRAG, RAG, Multi-Agent Systems, Vector Databases, Groq, Nvidia Embeddings, Tableau, Snowflake, BigQuery, SQL, Statistics, Machine Learning, Deep Learning, Artificial Intelligence, Hadoop, NLP
- **Tools:** n8n, Amazon Web Services (AWS), Langflow, Neo4j, Astra DB, Groq, Snowflake, Large Language Models (LLMs), Google BigQuery, Tableau, MongoDB, MySQL, PostgreSQL, PowerBI, Microsoft PowerPoint, Microsoft Office Suite