Adishesh Gonibeed Ravishankar

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Education

Arizona State University Tempe, AZ

*Master of Science in **Computer Software Engineering (Thesis Track)*** *Aug. 2024 – May 2026*

- **Research Topics** :
  1. Use of **Deep Reinforcement Learning and LLM's** for **Ontology Alignment**.
  2. **Retrieval-Augmented Generation** (RAG) with **Knowledge Graphs**.
  3. **Parsing Resumes at scale with LLM's** using **CIP Code**s and **Identifying Skill Gaps and predicting result oriented curriculum** for students.
- **GPA** - 3.83

Visvesvaraya Technological University Bengaluru, India

*Bachelor of Engineering in **Information Science and Engineering*** *Aug. 2023*

Technical Skills

Languages: R, Python, C, C++, JavaScript, CSS, SQL, PHP, Java, Scala.
Python Libraries: TensorFlow, Keras, Scikit-learn, Pandas, Matplotlib, Seaborn, OpenCV, Mediapipe.
Cloud and Devops:AWS(EC2, S3, Route 53, CloudFront, Developer Tools), Kubernetes, Docker.
Frameworks and Tools: Node.js, React, Git, Scrum, Agile ,Tableau , Spark, Kafka.
Certifications: Generative AI for Everyone (DeepLearning.ai), AWS Cloud Practitioner (AWS).

Experience

Research Aide and Grader May 2025 – Present

Arizona State University - W.P. Carey School of Business *Tempe, AZ*

- Formulated a **data-driven strategy** for **curriculum optimization** by researching and **implementing LLMs to identify and address organizational skill gaps**, leading to more targeted learning pathways.
- Performed **SEM , ANOVA, ANCOVA , Regression Discontinuity, Survival Analysis**, other statistical and non statistical data analysis , cleaning and visualizations on Canvas LMS Data and other internal data for **industry reports and communicated key findings to sponsors to support strategic decision-making.**
- Facilitate course delivery, **evaluate assignments, and mentor students** in **AWS Cloud Foundations course - CIS 194.**

AWS Cloud and Full-Stack Developer Intern Aug. 2023 – Jan. 2024

The India Cloud *Bengaluru, India*

- Enhanced website **performance and scalability using AWS (EC2, S3, Route 53, CloudFront)**. Established **CI/CD pipelines via AWS CodeBuild, CodeCommit, and CodePipeline** for continuous delivery. Built full-stack solutions with **Node.js, React, and Passport** for seamless frontend-backend integration.
- Designed an **AI-driven chatbot enabling new hires to easily query HR documents** and ask questions **during the onboarding process**.

Data Science and AI Internship Training March 2022 – June 2022

New Age Solutions Technologies (NASTECH) *Bengaluru, India*

- Applied AI and data science techniques, including machine learning, deep learning, and big data analysis. Utilized **TensorFlow, Keras, Scikit-learn, Pandas, Matplotlib, and Seaborn** for deep learning model development and visualization.
- Created and deployed a **real-time object-detection service by YOLOv5 on edge devices**, achieving 60 FPS inference (under 50 ms latency).

Projects

DRAL-OA | *Researcher and Developer*

- Enhanced and submitted a **deep reinforcement and adaptive learning ontology alignment framework** to the **OAEI 2025 campaign**, achieving benchmark scores of **92 percent Precision and Recall** on the complex **anatomy** track.
- **Currently leading research** into **integrating LLMs** to further **boost alignment accuracy**, with the objective of surpassing the 92 percent performance benchmark.

Finetuning Gemma-3n with LORA | *Developer*

- Built a **custom fine-tuning pipeline** for **Google's Gemma 3N**, utilizing Unsloth's optimized framework and **LORA PEFT** to train on specialized for **Local LLM on mobile devices**.
- **Architected an automated** end-to-end fine-tuning **pipeline** that **directly ingests datasets from the Huggingface Hub**, enabling **one-click model training** and significantly **reducing the turnaround time**

Smart Portfolio Builder | *AWS Cloud, Backend Developer*

- **Won** the **MOST INNOVATIVE PROJECT at INNOVATION HACKS - 2025.** Integrated **AWS Bedrock** (Claude 3 Haiku) into backend to provide **AI-enhanced resume summarization** and orchestrated **scalable processing of user portfolio data**. Designed a robust N**ode.js/Express.js RESTful backend**, processing **100+ resumes and videos** via Multer-powered uploads, achieving high percent uptime through optimized **PostgreSQL** data storage.

HR Onboarding Chatbot | *Full Stack Developer*

- Engineered a **LLM chatbot solution** integrated with **OpenAI modules, sentence transformers, FAISS, NLTK, NumPy, and Pandas**.
- Built efficient **natural language queries against proprietary content**. Ensured **scalability, reliability**, and seamless integration with existing **AWS-based infrastructure.** Pioneered natural language processing (NLP) pipeline improving **content retrieval accuracy by 30 percent** and reducing query processing time by 40 percent on AWS.

References

Raghu Santanam, **Senior Associate Dean for Executive Education**
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