Sahil Gupta

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EDUCATION

University of Massachusetts Amherst
M.S. Computer Science (GPA: 3.90 / 4.0)   Sep 2023 – May 2025
Coursework: Deep Learning, Natural Language Processing, Information Retrieval, Systems for Data Science, Machine Learning, Algorithms for Data Science, Reinforcement Learning, Computer Network and Security, Software Engineering, Statistics

University of Massachusetts Amherst
B.S. Computer Science (GPA: 3.86 / 4.0)   Sep 2019 – May 2023
Coursework: Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Natural Language Processing, Search Engines, Operating Systems, Computer Networks, Database Systems, Software Engineering

SKILLS

Languages and Databases: Python, Java, TypeScript, JavaScript, C++, C Kotlin, SQL, PostgreSQL, MongoDB, Scala, NoSQL
Frameworks: React, React Native, Android, Node.js, Express.js, Selenium, CSS, HTML
Technologies: Amazon Web Services (AWS), Firebase, Postman, Git, Linux

CONFERENCE PUBLICATIONS

- Prathiksha Rumale Vishwanath, Simran Tiwari, Tejas Naik, Sahil Gupta, Dung Ngoc Thai, Wenlong Zhao, Sunjae Kwon, Victor Ardulov, Karim Tarabishy, Andrew McCallum, Wael Salloum. Faithfulness Hallucination Detection in Healthcare AI. KDD-AIDSH 2024 Oral

WORK EXPERIENCE

Mendel.ai   Feb 2024 – Aug 2024
Graduate Student Researcher   Remote, U.S.A
- Worked on a Generative AI (GenAI) research project in the healthcare domain aimed at evaluating clinical summaries generated by Large Language Models (LLMs) and published our findings at KDD-AIDSH 2024 conference.
- Developed a faithfulness hallucination detection framework using GPT-4o and Llama-3 for clinical summary generation and evaluation using Chain-of-Thought (CoT) reasoning and few-shot prompting.

MAQ Software   Jun 2024 – Aug 2024
Data Operations Engineer Intern   WA, U.S.A
- Created ETL pipelines by leveraging Microsoft Azure Databricks for scalable big data processing, Azure Data Factory for orchestrating data workflows, SQL for data transformations, Apache Spark for distributed data handling, and Python for writing scripts.
- Implemented agile project management methods to track progress, manage risks, and ensure timely delivery of project milestones.

Altius Strategic Consulting   May 2022 – Aug 2022
Software Engineer Intern   CA, U.S.A
- Worked on an android mobile application which performed on device machine learning and computer vision via MediaPipe and MLKit.
- Deployed Amazon S3 to establish secure and scalable cloud storage, AWS Lambda to facilitate serverless computing tasks, Amazon
- DynamoDB to streamline database management, Amazon Cognito to handle access management as part of the backend development.
- Boosted app performance by 55% on average using multithreading for background tasks.
- Implemented user-friendly interfaces and integrated secure user authentication via Firebase.

AudioShelf   Nov 2022 – Feb 2023
Frontend Intern   MA, U.S.A
- Revamped the AudioShelf mobile app using React Native in TypeScript, offering audiobooks in 30+ languages to 2000+ users.
- Improved mobile application performance and reduced server load by 30% by through caching.
- Implemented 6+ new features, addressed 15+ identified issues, and resolved 12+ bugs.
- Improved user engagement by incorporating deep linking for navigation between the mobile application and external sources.

KPMG   May 2021 – Aug 2021
Software Developer Intern   Haryana, India
- Developed a Python web scraper using Selenium to retrieve project support data as part of the Data Engineer Platform Team.

PROJECTS

Elena   Dec 2022 – Feb 2023
- Developed a cross-functional elevation-based navigation website with React that assists hikers and bikers find shortest route to their destination and ensured data integrity via API testing conducted with Postman.