Meenakshi Suresh

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EDUCATION

University of Illinois Urbana-Champaign   Jan. 2026 – Dec 2027
Masters in Computer Science (MCS)   *Urbana, Illinois*
Coursework - Storage Systems, Advanced Information Retrieval, Applied Machine Learning

PES University   Aug. 2019 – Oct 2023
Bachelor of Technology in Computer Science (GPA: 8.64/10)   *Bangalore, Karnataka*

EXPERIENCE

Senior Associate, Data Science   Jun 2023 – Jan 2026
AT&T, Chief Data Office   *Bangalore, Karnataka*

- Designed and published a reusable NPM library for a React data table with advanced filtering, sorting, and pagination features—adopted across multiple sister applications, standardizing UI and reducing development effort
- Implemented robust backend services with PostgreSQL, MongoDB, and API integrations, incorporating OpenTelemetry for observability and improved debugging.
- Developed LangGraph-based fraud analysis agents and tools, boosting detection accuracy and accelerating investigative workflows
- Developed an AI-powered podcast feature converting documents to podcast-like conversations, enhancing content accessibility and user engagement
- Built and iteratively refined a document summarization module using varied approaches (map-reduce, single-prompt, multi-prompt), meeting diverse client needs and optimizing summary quality
- Founding engineer on Ask AT&T, an enterprise-wide internal chatbot; designed LLM orchestration pipelines using LangChain to support multi-format document ingestion and retrieval
- Integrated OpenAI and open-source LLMs (LLaMA) via Triton Inference Server and built backend APIs to enable scalable inference and application functionality

Technical Intern   Jan 2023 – Jun 2023
AT&T, Chief Data Office   *Bangalore, Karnataka*

- Designed and implemented a meeting insights module with speaker diarization and speaker-annotated transcription, followed by automatic transcript summarization, streamlining post-meeting documentation for teams
- Conducted topic modelling using BERTopic to uncover issues on missing customer promotional offers

Teaching Assistant   Jan 2023 – Jun 2023
PES University   *Bangalore, Karnataka*

- Prepared coding assignments for the course *Design and Analysis of Algorithms*

PUBLICATIONS/PROJECTS

Visualizing Chemistry Experiments using NLP and Computer Graphics (IEEE) | *Python, Flask, React*
- Presented in 2nd International Conference for Innovation in Technology (INOCON), 2023
- Built a tool that transforms educational text into interactive visual tutorials using NLP and computer graphics

GradNotif | *Go*
- Built a Go-based Reddit scraper that monitors posts from r/gradadmissions and r/mscs every 60 minutes
- Implemented concurrent scraping across subreddits and filtered posts containing target university names
- Integrated push notifications to deliver real-time alerts to my phone

Realtime Sentiment Analysis | *Python*
- Implemented a spark streaming pipeline for real-time tweet classification and clustering
- Incorporated Spark NLP for preprocessing
- Implemented machine learning models for training, and hyperparameter optimization for performance enhancement

TECHNICAL SKILLS

Languages: Python; C/C++; JavaScript; TypeScript; Go
Data Science and Machine Learning: Pandas, Numpy, NLTK, HuggingFace, Langchain, PyTorch
Cloud/Web: Azure services, Git, Flask, FastAPI, React, Regex, MongoDB, SQL