Divya Appapogu

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Education

Boston University *Sept 2024 – Current*
Ph.D. in Computer Science, **Advisor:** Dr. Aaron Mueller

Boston University *Aug 2021 – Jan 2023*
M.S. in Artificial Intelligence, GPA: 3.91/4.0, **Advisor:** Dr. Bryan Plummer

IIT Hyderabad *Aug 2015 – May 2019*
B.Tech in Engineering Science, **Advisor:** Dr. Soumya Jana

Experience

Senior Software Engineer *Feb 2023 – Aug 2024*
Barclays

- Built and maintained scalable backend services using Java, Spring Boot, MongoDB, and Kafka for financial platforms.
- Containerized and deployed services using Docker and OpenShift with CI/CD pipelines following DevOps best practices.

Software Engineer *June 2019 – Aug 2021*
OYO

- Led decomposition of monolithic systems into microservices, improving scalability and maintainability.
- Designed Kafka-based data pipelines and optimized search and caching systems for large-scale production workloads.

Publications

Anatomy-Guided, Modality-Agnostic Segmentation of Neuroimaging Abnormalities *Human Brain Mapping, 2025*

D. Lteif, D. Appapogu, S. A. Bargal, B. A. Plummer, V. B. Kolachalama. *Human Brain Mapping*, Vol. 46, No. 14, e70329.

Identification of Mixed Retinal Cells using DBSCAN *IEEE EMBC 2019*

[PAPER] D. Spoorthy, S. R. Manne, V. Dhyani, et al. *"Automatic identification of mixed retinal cells in time-lapse fluorescent microscopy images using high-dimensional DBSCAN,"* IEEE Engineering in Medicine and Biology Society (EMBC), 2019.

Teaching

CS101: Introduction to Computing *Fall 2021, Spring 2022, Fall 2024*
Boston University

CS506: Tools for Data Science *Fall 2025*
Boston University

Skills

Machine Learning & AI: PyTorch, TensorFlow, Keras, Scikit-Learn; Deep Learning, Computer Vision, NLP; large-scale dataset generation using Generative AI models.

Software & Tools: Python (proficient); Java, C++ (working knowledge), Git, Docker, Kubernetes; collaborative development and CI/CD workflows.