ABISHEK GEDDALLU RENGARAJAN

623-274-6890 • thegrabishek@gmail.com • linkedin.com/in/ab1shek/ • github.com/abishek-ren

SUMMARY

Computer Science graduate student with 6+ years of experience in building Big Data pipelines processing 200M users data for Machine Learning using Apache Spark (Java, Scala) and Backend Development (Spring, Django, Node.js). Actively seeking a Summer Internship in 2024 to advance software development skills.

EDUCATION

M.S in Computer Science Graduation April 2025
Arizona State University, Ira A. Fulton Schools of Engineering, Arizona 4.0 GPA

B.Tech in Electrical Engineering 2013-2017
Indian Institute of Technology, Roorkee 3.3 GPA

TECHNICAL SKILLS

Programming: Java, Scala, Python, JavaScript, C#
Frameworks/Stack: Apache Spark, Kafka, Spring MVC, Spring boot, Spring Security, Spring Cloud, JPA, Hibernate, Airflow, Avro, Hadoop, Oozie, Microservices, Azure, ETL, Git, JWT/OAuth, PostgreSQL, MongoDB
Technical Proficiency: Data Structures and Algorithms, SOLID Principles, Object Oriented Programming, Full-Stack, Data Engineer, Big Data, Backend, Databases, AWS, REST, GraphQL
Certifications: Azure Data Engineer Associate(DP-203), Azure AI Fundamentals(AI-900), Azure Data Fundamentals(DP-900), Azure Fundamentals(AZ-900)

PROFESSIONAL EXPERIENCE

Walmart Global Tech, Bangalore, India: Software Engineer III Mar 2023 - Aug 2023

- Constructed a robust data pipeline for Ad Targeting, supporting both Machine Learning and rule-based models, handling data from 200+ million users. Reducing model development time.
- Developed a comprehensive in-house Feature Store encompassing various feature sets with its own ingestion pipeline for incremental updates, worked specifically on the feature registry and data processing pipeline.
- Modeled and implemented the feature ingestion pipeline and API for user interaction with the feature registry, thereby enhancing the overall efficiency and user experience of data scientists.

Société Générale GSC, Bangalore, India: Software Engineer II June 2017 - Mar 2023

- Engineered a data pipeline for calculating market risk metrics processing more than 100 Billion data points daily by leveraging Spark, Kafka and Rest API built using Spring Boot.
- Led implementation of sustainable coding practices, reducing carbon footprint, and promoting eco-friendly solutions for project development.
- Optimized Spark jobs by dynamic scaling of clusters, leading to a cost reduction of up to 70% through dynamic allocation on the Azure HDInsights cluster.
- Initiated migration from JSON to Parquet file transfers between applications, reducing data transfer by over 50%.
- Designed and installed new modules for Big Data processing adding more checkpoints to the pipeline.
- Migrated computing systems from a private cloud to Microsoft Azure, reducing operational costs by over 40%.
- Interfaced periodically with downstream and upstream application teams, ensuring seamless workflow and optimal performance.
- Executed tickets promptly, aiding in sprint task prioritization following an Agile methodology for efficient project delivery and team coordination.
- Implemented user access control to delegate incident resolution responsibilities effectively across teams, ensuring targeted response to data anomalies in the pipeline.

ACADEMIC PROJECTS

Autonomous Car Parking System | **Project Link** Fall 2023

Spearheaded development of an innovative autonomous car parking solution, integrating simplified sensory inputs with advanced machine learning algorithms for efficient vehicle navigation and parking in Unity Environment.

- Coordinated seamless integration of Unity for testing purposes with custom dynamic scenarios, utilizing ml-agents.
- Explored advanced ML models for accurate decision-making capabilities for parking in diverse environments.