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# SADASHIV RAJ BHARADWAJ

## SUMMARY

Senior Software Engineer with 7+ years of experience specializing in building and scaling high-throughput data pipelines and distributed systems. Proven track record of delivering impactful solutions that drive business growth, reduce costs, and improve system reliability. Previously engineered data solutions for Uber's Growth Marketing team, directly contributing to increased marketing ROI and efficiency.

## SKILLS

**AI and LLMs:** Azure GPT Series, Gemini Series, Langgraph, Langchain, Langsmith

**Programming Languages:** Python, SQL, Scala, Golang

**Cloud Platforms:**

      **GCP:** BigQuery, Cloud Storage, Dataproc, Compute Engine

      **AWS:** EC2, EMR, Lambda, DMS, Glue

**Data Engineering & Orchestration:** Apache Airflow, Apache Spark, HDFS, Sqoop, Kafka, Celery, Redis, Docker

**Databases:** MySQL, Postgres, MSSQL, Hive, Presto, Snowflake, BigQuery, HANA

**Data Visualization:** Tableau, PowerBI, Apache Superset, Looker, Domo

**CI/CD:** Jenkins, Spinnaker, Quay, Openshift

**Other:** Data Modeling, Microservices Architecture, REST APIs, Git

## EXPERIENCE

### Cisco Systems, Bangalore – *Leader, Engineering*

JUL 2020 – PRESENT

- Leading a team of 7 engineers responsible for the design, development, and maintenance of Cisco Marketing's Data platform and AI infrastructure.
- Led the design and development of "AIDE," an AI chatbot generation platform using **Python, Langchain, and a Weaviate vector database**; scaled the microservices architecture on **Kubernetes** to **handle 25,000 concurrent requests**, culminating in a successful launch to 17,000 users at Cisco GSX.
- Launched a chat bot using **OpenAI** and **Weaviate** database to provide interactive support on internal dashboarding applications.
- Architected a custom YAML-based ETL orchestrator using **Python and a microservices architecture**, replacing a licensed tool to **save $100,000+ annually** and cutting time-to-market for new data products from 7 days to 4 hours.

- Setup and deployed a data science workbench that was used by 100+ data scientists to develop and deploy machine learning models, which improved time to market by 40%.
- Engineered a suite of multithreaded **Python** data pipeline generators, slashing pipeline execution runtimes by **60%** and reducing annual infrastructure costs by **$250,000** on the AWS platform. This framework also cut new pipeline development time by **70%**.

### Gartner India Research and Advisory Services, Gurgaon — *Data Engineer*

JAN 2020 – JUL 2020

- Developed near real-time data integration with BigQuery for ingesting sessions and hits data
- Implemented Airflow as a replacement for existing ETL tools within 6 months, resulting in a cost savings of up to $65,000.
- Implemented 40+ data integrations between APIs and databases, enabling the company to collect data from a variety of sources and gain a more complete view of their business.

### Nineleaps Technology Solution Pvt. Ltd., Bangalore — *Software Development Engineer II*

SEP 2017 – JAN 2020

- **Software Engineer (Contract) @ Uber's Growth Marketing Team**
- **AdTech Targeting**: Optimized the AdTech audience generation pipeline by engineering a new data preparation framework in **PySpark**, reducing audience upload times to ad networks **by 94% (from 6 hours to 20 minutes)** and accelerating campaign launch timelines.
- **Uber City Guides**: Architected and delivered a multithreaded data ingestion pipeline using **Python and Apache Airflow**, reducing data processing time for the Uber City Guides feature **from 4 hours to 30 minutes (an 87% reduction).**
- **Uber Euclid**: Designed 15+ plugins on Apache Airflow that integrated APIs and SDKs of multiple ad networks and affiliates to fetch data for marketing analytics, which resulted in early detection of marketing spend issues.
- **AdTech BI**: Drove a **10% increase in marketing ROI** and reduced driver/rider acquisition costs by performing complex data analysis on petabyte-scale datasets using **Presto and Hive**, delivering key insights that informed marketing spend strategy.

## EDUCATION

### University of Delhi, Delhi — *Bachelor of Technology (Electronics)*

JULY 2013 – JUNE 2017

## AWARDS AND PUBLICATIONS

- 8 research paper publications

- Received over 30 awards at Cisco for exceeding expectations and demonstrating exceptional stakeholder management skills.