

# Hemanth Shrinivasan Basavaraj

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## Education

### Master of Science: Data Science

University at Buffalo, New York, USA (GPA 3.78)

August 2023 - January 2025

### Bachelor of Technology: Mechanical Engineering

Sri Krishna College of Technology, Coimbatore, India (GPA 3.77, Gold Medallist, Top of a class of 170 students)

August 2016 - April 2020

## Technical Skills

- Programming & Frameworks:** Python, Bash, SQL, Java, Shell Scripting, Flask, Django, Pandas, NumPy
- Cloud & Infrastructure:** AWS (EC2, S3, Lambda, RDS), Azure, Google Cloud Platform (GCP), Terraform, Ansible, Puppet, Chef
- Big Data & Databases:** Apache Spark, Hadoop, Hive, Kafka, Airflow, Databricks, MySQL, PostgreSQL, MongoDB, Cassandra, Redis
- DevOps Tools:** Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Prometheus, Grafana, AWS CloudWatch, Azure Monitor
- Machine Learning & Developer Tools:** TensorFlow, PyTorch, Scikit-learn, Keras, Jupyter, MLflow, Git, Visual Studio Code, IntelliJ IDEA, PyCharm, JIRA, Confluence

## EXPERIENCE

### Co-Founder

CornerInk, Hyderabad

September 2022 - August 2023

- Built a web application for personalized clothing design, material selection, and order placement, optimized for individual and bulk purchases, with integrated design tool, payment systems, AI assistance, and order management for enhanced user experience and efficiency.

### Cloud Data Analyst

Accenture, Hyderabad

September 2022 - January 2023

- Collaborated with data teams to optimize data flows using Apache Spark and Databricks, processing and analyzing up to 500TB of data daily.
- Ensured seamless integration of backup data into cloud storage infrastructure, enhancing data accessibility and consistency.
- Designed disaster recovery strategies with 99.9% data availability through multi-region replication of 500TB of critical data.
- Automated failover and recovery processes using Azure Resource Manager templates, minimizing downtime by 30% and improving operational efficiency.
- Presented daily reports on backup status, system performance, and incidents to clients, ensuring transparency and communication on 500TB daily backup operations.

### Cloud Data Associate

Accenture, Hyderabad

August 2020 - September 2022

- Administered 500TB daily backups across RAW, tape, Nutanix, VM, archive, and filesystem backups on conventional systems, along with backups on Azure, ensuring data integrity while deploying monitoring with Prometheus and Grafana, reducing downtime by 25%.
- Allocated 1,000+ LUNs with 1.2TB storage volumes, optimizing SAN/NAS resources, and reduced cloud infrastructure costs by 15% through automated scaling.
- Improved ETL pipeline efficiency for 100TB of data using Apache Spark and Databricks, while managing 100+ cloud resources with Terraform and Ansible, reducing provisioning times by 60% and ensuring accurate, timely cloud storage transformation and infrastructure consistency in Azure.
- Managed 50+ containerized applications using Docker, reducing deployment times by 30%, and orchestrated Kubernetes clusters to support large-scale backup and replication processes.
- Automated CI/CD pipelines with Jenkins and GitLab, increasing deployment efficiency by 40% and reducing manual configuration by 50%.

### Data Analyst Intern

GMR Airport Developers, Hyderabad

July 2019 - August 2019

- Analyzed HVAC system data using Excel to optimize performance, developed real-time dashboards for energy monitoring, and used AWS EC2 and S3 for scalable storage and processing.

## Projects

### IPL Cricket Data Management and Query Optimization

- Designed and optimized a PostgreSQL database for IPL cricket data, improving query performance by 50% and deploying a real-time visualization app.

### Multi-Algorithm Airbnb Pricing Optimization and Web Integration

- Developed and integrated machine learning models (Decision Tree, Gradient Boosting) to optimize Airbnb rental prices using 49,000+ listings. Built a web interface to showcase results.

### Real-Time Data Pipeline for Predictive Analytics on IoT Sensor Data

- Engineered a scalable real-time data pipeline using Apache Kafka, Spark, and AWS to ingest, process, and analyze IoT sensor data, enabling predictive analytics and anomaly detection with integrated CI/CD and cloud infrastructure automation.

## Certifications

- Microsoft Azure Administrator (AZ-104)
- Microsoft Azure Fundamentals (AZ-900)

September - 2024

April - 2021

## Achievements

### EFFI-CYCLE (SAE INDIA)

July 2018 - October 2018

- Led a 5-member team to design and race an electric trike, securing 5th place in endurance and 4th in drive excellence out of 100+ teams.

### DRDO Robotics and Unmanned Systems Exposition

January 2018 - March 2018

- Conceptualized and executed an autonomous robotic rover system, achieving Top 15 finalist position out of 350+ teams at the DRDO exposition.