Hemanth Shrinivasan Basavaraj

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Education

Master of Science: Data Science	*August 2023 - January 2025*

University at Buffalo, New York (**GPA 3.74**)

Bachelor of Technology	*August 2016 - April 2020*

Anna University, Tamil Nadu (**GPA 3.77, Gold Medallist, Top of a class of 170 students**)

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, Confluence

Work Experience

Co-Founder	*September 2022 - August 2023*

CornerInk, Hyderabad

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

Cloud Data Analyst	*September 2022 - January 2023*

Accenture, Hyderabad

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

Cloud Data Associate	*August 2020 - September 2022*

Accenture, Hyderabad

- Administered daily backups of over 500TB across RAW, tape, Nutanix, Filesystem, Archive and cloud-based backups on Azure, ensuring data integrity and consistency across environments.
- Allocated over 1,000 LUNs with 1.2TB storage volumes, optimizing storage resources across SAN and NAS environments for enterprise clients.
- Improved ETL pipeline efficiency, processing up to 100TB of data daily using Apache Spark and Databricks, ensuring accurate and timely data transformation into cloud storage.
- Spearheaded the management of over 50 containerized applications using Docker, reducing deployment times by 30%.
- Orchestrated Kubernetes clusters to support large-scale backup and replication processes, ensuring scalability for daily backups.
- Automated CI/CD pipelines using Jenkins and GitLab, increasing deployment efficiency by 40% and reducing manual configuration by 50%.
- Managed over 100 cloud resources using Terraform and Ansible, reducing provisioning times by 60% and improving infrastructure consistency in Azure.
- Deployed monitoring solutions with Prometheus and Grafana to track backup performance and data replication for 500TB, reducing downtime by 25%.
- Reduced cloud infrastructure costs by 15% through optimized resource allocation and automated scaling strategies.

Data Analyst Intern	*July 2019 – August 2019*

GMR Airport Developers, Hyderabad

- Evaluated HVAC system data using Excel to optimize performance and uncover inefficiencies, enhancing energy consumption insights.
- Built real-time dashboards for energy monitoring and utilized AWS EC2 and S3 for scalable storage and data 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 implemented 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)	*September - 2024*
- Microsoft Azure Fundamentals (AZ-900)	*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.
- Cultivated teamwork and collaboration, effectively managing the team and ensuring project completion under tight deadlines

DRDO (Defence research and development organisation) 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.
- Demonstrated strong problem-solving and innovation, while effectively communicating technical concepts to team members and judges.