

Akash M

 [Akash-M1](#)   +91 9611309909
 [Akash Malasetty](#)  akashmalasetty@gmail.com

ABOUT ME

As a passionate Software Developer and Data Engineer, I have experience spanning Frontend, Backend, and Data domains, with a strong foundation in building scalable, cloud-native systems. My expertise includes working with AWS and GCP services such as BigQuery, GKE, and Artifact Registry, alongside proficiency in Relational and NoSQL databases. At Lowe's India, I focus on developing and maintaining data pipelines for Demand and Promotion Forecasting, gaining deep insights into retail data ecosystems. I'm driven to integrate AI, Machine Learning, and DevOps practices—using tools like Docker and Kubernetes—to craft intelligent and impactful solutions.

EXPERIENCE

Software Development Intern - Samsung Research Institute Bangalore June 2023 - Aug 2023

During my tenure as a Software Development Intern at Samsung Research Institute Bengaluru, I collaborated with the Network Call and OAM department, focusing on the implementation and optimization of deep learning algorithms for Channel Estimation and maintenance. Additionally, I contributed significantly to the development of an innovative smart satellite system, leveraging Generative Adversarial Networks (GAN) and various other Deep Learning Models. These models were instrumental in real-time video frame generation and advanced functionalities such as posture detection, effectively conserving network bandwidth during video calls.

Associate Cloud Intern - Sprinklr India

 Feb 2024 - June 2024

Worked as an Associate Cloud Intern at Sprinklr India in the department of Cloud and DevOps

- Write scripts and automation using Python/Groovy/Java/Bash
- Infrastructure automation using Ansible, and IAC tools.
- Developing a deeper understanding of TechOps processes.
- Build independent web-based tools, microservices, and solutions to scale the infrastructure effectively
- Work on a cloud-based infrastructure spanning Amazon Web Services, Microsoft Azure, and Google cloud
- Focus on Product reliability and security aspects.

Data Engineer - Lowe's India

Jul 2024 - Present

- Built scalable, cloud-native data pipelines for Demand Forecasting and Promotion Forecasting, ensuring data quality and reliability.
- Took ownership of multiple source data feeds across systems to maintain accuracy and consistency.
- Developed a deep understanding of retail data systems, including SKU, promotions, sales velocity, and demand elasticity.
- Collaborated with analytics and data science teams to deliver model-ready datasets using Python, BigQuery, and Airflow.

PROJECTS

Website for Online Book Store

[Link to Source Code](#)

As part of a dynamic initiative to foster a vibrant reading culture and promote the sustainable reuse of literature, I spearheaded the development of a subscription-based book store website leveraging a comprehensive array of Java tools. Utilizing Servlets, Java Server Pages (JSP), JDBC (Java Database Connector), and Hibernate, I architected a robust platform that facilitates seamless access to a diverse range of novels. This innovative project not only encourages avid readership but also advocates for the circulation of books on a rental basis post-reading, thereby minimizing waste and maximizing literary engagement.

Thera-Buddy

[Link to Source Code](#)

I conceptualized and developed a Chrome extension designed to integrate a sophisticated chatbot capable of detecting signs of depression or trauma based on the user's browsing and social media activity. Leveraging the robust capabilities of Google Cloud Platform (GCP), specifically Dialogflow for natural language processing and Dataproc for data processing, I employed an LSTM (Long Short-Term Memory) architecture in deep learning to enhance the chatbot's responsiveness and accuracy. This innovative solution proactively identifies individuals in distress and promptly activates the chatbot to provide empathetic and supportive assistance, thereby fostering mental well-being in the digital age.

Blind Navigation System

[Link to Source Code](#)

I spearheaded the development of an innovative navigation and commuting solution specifically tailored for individuals with visual impairments. Recognizing the challenges they face in independent navigation, the product harnesses the power of Google's APIs and integrates advanced machine learning and deep learning algorithms. These algorithms facilitate Optical Character Recognition (OCR) for reading signs and text, pothole detection to ensure safe travel conditions, and voice dictation capabilities for hands-free interaction. This groundbreaking solution empowers blind individuals to navigate their surroundings with increased confidence and autonomy, significantly enhancing their daily commute experience.

Samsung Prism Project - Big Data Pipeline and Cluster Setup

I led a pivotal industrial project focused on Big Data analytics aimed at assisting Samsung in transitioning from legacy data storage and pipeline systems to a streamlined, cloud-based, and automated infrastructure. Our solution was tailored for efficient traffic management and maintenance of data streams originating from Bixby and various other sources. Leveraging cutting-edge tools such as Apache Spark for data processing and Solr for search and analytics, we successfully executed the project, earning us the prestigious "Excellent Project of the Year" accolade for our outstanding contributions and innovative approach to data management and analytics.

PhaseShift Website - College Fest Website

[Link to Source Code](#)

I spearheaded the development of comprehensive websites for festival management, encompassing event registrations, with a robust suite of management tools. These tools comprised a sponsorship portal, merchandise portal, campaigning portal, and coordinators portal. The event registration portal successfully handled concurrent interactions from 1,000 to 2,000 members. Leveraging a cutting-edge tech stack, our solution was built using NodeJS, MongoDB, ReactJs, and NextJS, supplemented by advanced tools including Kafka for message queues and Redis for database caching. We deployed the system using Docker, Google Cloud Platform's (GCP) Google Kubernetes Engine (GKE), Artifact Registry, Cloud Content Delivery Network (CDN), and Google Cloud Storage (GCS) for efficient image storage and rendering.

EDUCATION

2024 - 2020	Bachelor's Degree at B.M.S. College of Engineering	(GPA: 8.9/10.0)
2020	Class 12th Karnataka PU Board	(Percentage: 88/100)
2019	Class 10th Indian Certificate of Secondary Education	(Percentage: 89/100)

SKILLS

Programming Skills	Java, Python, HTML, CSS Javascript, Swift, Go
Advanced Programming Tools	JSP, Servlets, ReactJS, ExpressJS, MongoDB, NodeJS, Pandas, Numpy, SpringBoot, Hibernate, Large Language Models, Fine Tuning, Prompt Engineering.
DevOps and Cloud Skills	GitHub, BitBucket, AWS(EC2, S3, CloudFront, ECR, EKS), GCP(Compute Engine, Vertex AI, Cloud CDN, GKE), Docker, Kubernetes, Ansible.
Communication	English, Hindi, Kannada, Telugu

CERTIFICATIONS

A Grade Python Programming Expert By Edureka
Full Stack Web Development Internship Program Certification by Edureka
Java Developer Certification by Edureka
DSA Certification from Coding Ninjas

ACHIEVEMENTS

2nd Runner Up in Sentinel Hack - A State-level Hackathon Conducted by KSIT
2nd Runner Up in Hackathon Conducted by iNeuron
Finalists of Green Pill Hackathon Held in Gokarna
Finalists of Rajasthan IT Day Hackathon

EXTRA CURRICULAR ACTIVITIES

Head of Development in a technical club CODEIO BMSCE
Senior Team member in Protocol Club BMSCE
Technical Mentor in Protocol Club BMSCE
Head of Project Stall Coordinator of Phase Shift Technical fest of BMSCE