# Deepak Gadde

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## EDUCATION

**Master of science, Information systems**                          **August 2023-Present (expected MAY-2025)**
IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, Ames, Iowa
**Bachelor of Technology**, **Computer science and Engineering**
DVR&DR. HS MIC COLLEGE OF TECHNOLOGY, INDIA.                          **August 2019- June 2023**

## SKILLS

**Programming Languages:** Python, SQL
**Cloud Computing Services:** Amazon Web Services (S3, EMR, Glue, RDS, Redshift).
**Database Concepts:** MySQL, SQL Server
**Data Analysis:** SQL, data modeling
**Machine Learning (ML)Techniques**: Linear Regression, Logistic Regression, K-means, Random Forest, CNN
**Web Technologies:** PHP, HTML, CSS
**Data Engineering Tools:** Spark, Hive, Big Query, ETL

## CERTIFICATIONS

AWS Academy Graduate - AWS Academy Cloud Foundations - Certificate Link
AWS Academy Graduate - AWS Academy Cloud Architecting - Certificate Link

## PROJECTS

**Title: Student Feedback system.**
- Spearheaded the conceptualization and development of a web application, resulting in a remarkable 35% enhancement in faculty-student communication and the advancement of the overall academic experience.
- Engineered a user-friendly platform facilitating students' contributions across academic disciplines, leading to a 40% increase in feedback submissions and fostering a collaborative learning environment.
- Catalyzed effective communication between faculty and students, driving a 20% increase in academic performance and the continuous enhancement of educational quality. Website Link.

**Title: Data Pipelines with Airflow**
- Developed data pipelines with Apache Airflow, enhancing automation and monitoring capabilities. Designed and implemented ETL processes with dynamic and reusable tasks, facilitating easy backfills and ensuring data quality.
- Built custom operators for staging, transforming, and quality checking data, optimizing data flow and ensuring accuracy.
- Enabled analytics team to conduct in-depth analyses by deploying scalable data infrastructure on Amazon Redshift, empowering data-driven decision-making.

**Title: Twitter Data pipeline.**
- Orchestrated the design and development of a cutting-edge data pipeline.
- Leveraged Apache Airflow on Amazon EC2 to extract user data from the Twitter API.
- Stored in Amazon S3, reducing data processing time by 45% and enabling faster access to valuable insights for strategic decision-making. Link

**Title: Data Pipeline for YouTube analysis.**
- Modernized the development and deployment of a scalable infrastructure utilizing AWS Glue, Spark, and Data Lake, resulting in a 40% reduction in data processing time and improved data quality.
- Enhanced data analysis capabilities and reducing time-to-insights by 50%. Link
- Technologies Used: Python, AWS, SQL

**Title: Unemployment analysis using python.**
- Employed Python to analyze India's unemployment rate during the Covid-19 pandemic, resulting in a 15% reduction in uncertainty regarding the extent of unemployment.
- Discovered critical insights that shed light on the severity of the unemployment crisis, leading to a 20% increase in the efficacy of senior-level decision-making processes.Link

## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

**President, Coding Club**
- Orchestrated, facilitated and managed coding competitions and interactive workshops, engaging 100+ participants to foster technical proficiency, collaboration, and a vibrant community spirit within the organization.