

AMEY BHILEGAONKAR

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Education

Master of Computer Science

Arizona State University

August 2022 - May 2024

Tempe, Arizona

Bachelor of Engineering in Electronics and Telecommunications

Pune Institute of Computer Technology

June 2015 - July 2019

Pune, Maharashtra

Relevant Coursework

- Data Structures and Algorithms
- Database Management
- Statistical Machine Learning
- Object Oriented Programming (OOP)
- Spatial Data Science
- Computer Networks

Technical Skills

GCP Associate Cloud Engineer certified.

Programming Languages: Python, Java, Unix/Linux Scripting, Terraform

Software and Technologies: GCP, AWS, Kafka, DevOps, Git and Version control, code refactoring, Agile, Scrum, Data warehouse

Technologies, Libraries, and Frameworks: Docker, Kubernetes, Jenkins, CICD, EC2, ECR, ECS, S3, SNS, VPC, Cloudwatch, DynamoDB, Cloud Storage, BigQuery, IAM, Terraform, Apache Spark, Spring boot, MySQL, Airflow, DBT

Experience

DevOps Engineer - McDonald's Customer Real Time Data Services

January 2021 - July 2022

Publicis Sapient, Bangalore, India

- Re-designed and automated large scale, high-performance, scalable data pipelines using Jenkins for Containerized, Batch, and Real-Time deployments, **increasing efficiency** by around 45%.
- **Created Automated Infrastructure / Resource Provisioning** using Terraform in AWS which **saved manual efforts** of about 40h/month saving costs of about \$60K/month to the company.
- Managing and supporting the Containerization by using ECS and docker.
- Integrate the Devops tools like GIT and Blue Ocean with Jenkins to set up CICD application deployment.
- Implementation and support of CICD solutions using AWS services like Code-pipeline, Code-deploy, Code commit etc.
- **Capabilities:** Java, EC2, ECR, ECS, S3, SNS, VPC, DynamoDB, Scala, Cassandra, DevOps, Terraform, Apache Spark, Data Cleaning, Data Modeling, Data Visualization, Distributed Systems

Data Analyst - McDonald's Japan Analytics

June 2019 - December 2020

Publicis Sapient, Bangalore, India

- Developed an Automated Data Validation Module to verify Data flow, boosting efficiency by 30%
- Created Translation module using google translate API to translate business Data Dashboards into different languages, reducing manual efforts to 10%
- Constructed Data Ingestion pipelines to ETL the 50 TBs of the file data everyday to GCP's BigQuery.
- Enhanced various modules by developing new a modularized code structure resulting in increased efficiency by 25%.
- Coordinated with Data scientists for data cleaning and variables selection
- **Capabilities:** Python, DBT, Airflow, Kubernetes, GCP, BigQuery, DataFlow, Cloud Storage, AI platform, Data Collection, Data Validation, Data Cleaning, Data Integration

Projects

Jobs made Easy | Python, Django, SQL, HTML, CSS, DevOps, AWS, Git

January 2022

- Scheduled the deployments using Jenkins and GitHub resulting in 0 manual intervention for deployments
- Developing an end-to-end scalable college placement system, to help Colleges and Students automate Training and Jobs/Placements tasks and to better manage the resources using our platform.
- Implemented services for Authentication, and a highly scalable database design. Collaborated to create front-end services using Python Django.

Emotion Detection using Machine learning | Python, PyTorch, Scikitlearn, Librosa, Jupyter, Collab

February 2020

- Implemented Emotion detection using two different types of Data with existing Machine Learning models.
- Adapted and Explored different parameters and concepts like Over-fitting, Under-fitting, Bias, Variance, Accuracy, F1-scores, Regularization, Bagging and Boosting, Neural Networks, LSTM
- **Using Image Data:** Enhanced CNN model to detect Emotions from Images and used transfer learning to detect more emotions by training the model again on the newer data set.
- **Using Speech Data:** Boosted the accuracy of the existing speech emotion recognition model by 13% by training it over filtered and modified the features of the data.