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

- Object Oriented Programming (OOP)
- Database Management

• Statistical Machine Learning

• Spatial Data Science

• Computer Networks

Technical Skills

GCP Associate Cloud Engineer certified.

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

Cloud Platforms and Databases: GCP, AWS, DBT, MySQL, DynamoDB, Cassandra

Data Science and Engineering: Airflow, ETL, Kafka, Spark, Big data, Data warehousing, Data Analytics, Data Visualisation, NLP, Image Processing, Statistics, Spring boot, Hadoop, Pandas, Numpy, Scipy, sci-kit learn, Tensorflow, Keras, Jupyter Notebook DevOps/Site Reliability Practices: CICD, Git and Version control, Jenkins, Terraform, Automation, Docker, Kubernetes, code refactoring, Agile, Scrum, S3, Data Lake, GCS, SQS, EC2, ECR, SNS, VPC.

Experience

Data Engineer - McDonald's Customer Real Time Data Services

January 2021 - July 2022

Publicis Sapient, Banglore, India

- Built and Automated large-scale, high-performance, scalable databases, capable of ETL processes using Cassandra and Spark which reduced manual efforts by 60%
- Translated business propositions into quantitative queries and collected and cleaned the necessary data.
- Maintained data pipeline up-time of 99.4% while ingesting streaming and transnational data across 8 different data sources Spark, S3, SQS, Java, Python.
- Automated Resource Provisioning and testing which saved manual efforts of about 40h/month saving costs of about \$60K/month to the company.
- 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, Banglore, 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

- Currently, Developing an end-to-end scalable Client-Server API-based web application, to help Colleges and Students automate Training and Placements tasks to better manage the resources using the platform.
- Implemented micro-services for Authentication, and a scalable database design. Collaborated to create front-end services using Python Diango.
- Used Cron to schedule the deployments using Jenkins and GitHub resulting in 0 manual intervention for deployments

Image Captioning using Deep Learning | Python, Tensorflow, Keras, Numpy, Scipy, PyTorch, AWS

September 2022

- Currently developing a Computer Vision and Natural Language Processing based Mathematical ML model, to detect objects from Image and construct the caption of the Image
- creating a module for success verification that uses indicators like BLEU, CIDEr, SPICE, to assess the success rate.
- Creating a graph plotting module to better comprehend data distribution and the relationship between accuracy and errors.

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.