Amey Bhilegaonkar

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Education

Master of Computer Science **August 2022 - May 2024**
Arizona State University *Tempe, Arizona*

Bachelor of Engineering in Electronics and Telecommunications **June 2015 - July 2019**
Pune Institute of Computer Technology *Pune, Maharashtra*

Technical Skills

GCP Associate Cloud Engineer certified.
Languages: Python, Java, Unix/Linux Scripting, Terraform
Web Technologies: GCP, AWS, Kafka
Software Engineering practices: DevOps, Git and Version control, code refactoring, Agile, Scrum, Data warehouse
Technologies, Libraries, and Frameworks: Apache Spark, Spring boot, MySQL, Jenkins, Airflow, DBT, Docker, Kubernetes, TensorFlow, Keras, PyTorch, Numpy, Scipy, scikit-learn, Pandas, Jupyter Notebook

Experience

Associate Software Development Engineer 2 - McDonald's CRDS **January 2021 - July 2022**
***Publicis Sapient**, Banglore, India*

- Upgraded and strengthened Production modules for Data handling using Apache spark and resolved ad hoc analysis tickets to assess the performance of the production environment.
- Re-designed completely, existing developer-centric deployment data pipelines into automated CICD using Jenkins for Containerized, Batch, and Real-Time deployments, increasing efficiency by around 45%.
- Standardized Automated Resource Provisioning and Module 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, No SQL Cassandra Database, DevOps, Terraform, Apache Spark, Data Cleaning, Data Visualization, Distributed Systems

Associate Software Development Engineer - McDonald's Japan Analytics **June 2019 - December 2020**
***Publicis Sapient**, Banglore, India*

- Initiated and built an Automated Data Validation Module to verify inflow, intermediate flow, and out-flow of the data, boosting efficiency by 30%
- Built an Automated Translation module using google translate API to translate multiple configurable YAML files, reducing manual efforts to 10%
- Constructed Data Ingestion pipelines to extract, process, analyze, and ingest the TBs of the file-data to Google Cloud Platform's BigQuery.
- Enhanced Email Notification, File Download, and Data Science modules resulting in increased efficiency of about 25%.
- Programmed an Authentication system to help manage user sign-in and signups to make the system secure and robust.
- **Capabilities**: Python, DBT, Apache Airflow, Kubernetes, AWS, Azure, GCP **Tools**: 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**

- 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.
- Used Cron to schedule the deployments using Jenkins and GitHub resulting in 0 manual intervention for deployments

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.