AJINKYA SAKHARE

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COMPENTENCIES

- SQL, HIVE
- PYTHON
- RESTFUL API DEVELOPMENT USING FLASK
- SQL, HIVE, HBASE, HADOOP
 MAPREDUCE
- SCIKIT-LEARN, TENSORFLOW,
- PANDAS, NUMPY
- POWERBI,
- SHELL SCRIPT POWERSHELL

PROFILE

A seasoned data scientist takes pride in building machine learning and deep learning models to infer raw data insights. I used my skills and experience to solve global clients' challenges, now eager to apply the same to real-world business problems.

EXPERIENCE

ELECTRIC POWER RESEARCH INSTITUTE. | JULY 2020 - OCTOBER 2020 INTERN

- Worked on internal data visualization library development using Python and SVG.
- Implemented proof of concept on internal Machine learning and Data analysis task.
- Implemented Anomaly detection pipeline for Electrical equipment drone dataset.
- Worked on proof of concept on Generative Adversarial Network (GAN) on image dataset generation.

TATA CONSULTANCY SERVICES LTD.| JULY 2016 - AUGUST 2019 SYSTEM ENGINEER

CLIENT: MORGAN STANLEY INC. | OCTOBER 2018 - AUGUST 2019

- Founded center of excellence team for Informatica Intelligence Cloud Services (IICS) and Informatica Big Data Management(BDM).
- Statistical analysis of data using statistical and machine learning models (SVM).
- Automated monitoring and repeated activity such as refresh, maintenance using shell script, Powershell, and Python.
- Streamlined production readiness and Bench-marking for BDM With Hadoop, Hive, PySpark, and Yarn.
- Analyzed and mining activities from large transnational unstructured data in Hadoop data lake.
- Produced visualization dashboards using PowerBI.
- Pioneered the testing methodologies to test new features of IICS and Informatica BDM.
- Maintained IICS and BDM Agents on Windows and Linux environments.

CLIENT: MICROSOFT INC. | JULY 2016 - OCTOBER 2018

- Charted and maintained fully automated CI/CD pipelines for code deployment using VSTS Deploy and PowerShell.
- Managed, refined, and oversaw cloud infrastructure on Azure, including backups, patches, and scaling.
- Consolidated underutilized servers and other infrastructure and reduced costs (~\$30,000/-).
- Automated build and deployment using Azure DevOps to reduce human error and speed up production processes and PowerBI reporting for visualization.
- Worked with geographically distributed senior leadership level stakeholders.

EDUCATION

MASTERS OF SCIENCE, MAJOR IN ARTIFICIAL INTELLIGENCE

NATIONAL UNIVERSITY OF IRELAND, GALWAY | 2019 - 2020 EXPECTED GRADE: 1.1

Modules: Data Science, Time Series analysis, Machine Learning, Reinforcement Learning, Large data analytics, Data Visualization, Computer Vision Pipeline, Data Visualization, etc.

BACHELORS OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING

KOLHAPUR UNIVERSITY, KOLHAPUR, INDIA | 2012 - 2016

CGPA: 8.17

Modules: Object oriented concept, web DEVELOPMENT, restful APi, Postgresql, statistics and fuzzy logic

SKILLS

- · Attention to detail
- Process Improvements
- Client Engagement
- Effective & Clear
 Communicator
- Project Management & Administration
- Quality & Compliance Checks
- Problem Solving
- Critical thinking
- Strong Presentation
- · Creative & Analytical thinking
- Resource Planning, Strategy & Operations
- Team player
- Passionate & enthusiastic
 Learner

ACADEMIC PROJECTS

OPTIMIZING NEURAL NETWORKS WITH EVOLUTIONARY ALGORITHMS

- Performance of Feed-forward neural networks depends upon the weights and NN architecture. Optimizing deep neural networks is a complex problem and gradient-based or constructive heuristics will bot be able to optimize these. In my MSc research thesis project working on genetic algorithms.
- Distributed Evolutionary Algorithms in Python (DEAP) and other python modules like sklearn, tensorflow, NumPy, pandas, etc.

TIME SERIES ANALYSIS ON CURRENCY VALUES

- Worked on data gathering and cleaning.
- Analyzed univariate time series and understood covariance, trend, and seasonality.
- · Performed statistical tests on data.
- Forecasting using time-series models i.e., ARIM, SARIMA, and SARIMAX.
- Used python modules like sklearn, TensorFlow, NumPy, statsmodels.tsa, pandas

REINFORCEMENT LEARNING AGENT FOR DETERMINISTIC PROBLEM PRESENTLY WORKING

- Using Python, created a 5x5 grid sized FrozenLake environment along with the necessary methods.
- Implemented Q-learning on the FrozenLake problem to learn a policy which can navigate optimally through the lake.
- Ran the frozen lake experiment for episodes and output the action value estimates at the end of the learning process.
- Applied DQN on a similar problem using Keras to eliminate the value iteration and Q table.

A DEEP LEARNING COMPUTER VISION PIPELINE FOR OBJECT DETECTION AND CLASSIFICATION

APRIL 2020

- Developed state-of-the-art computer vision pipeline to identify events over incoming video streams using deep learning techniques for object recognition and video analytics.
- The task was to detect object events (car) with specific attributes (car type and car colour).
- Instituted object detector model (TinyYolo) to detect a car in the video.
- Train an existing pre-trained object classifier i.e. Mobilenet from Keras to detect car type example Sedan or hatchback.
- Created an attribute classifier for colour detection of the car using OpenCV.
- Pipeline designed using python along with multiprocessing and queue module for parallel event processing.

CERTIFICATION AND COURSES

- IBM: Big Data Foundations Level 1
- DevOps Foundation Certificate
- Microsoft 70-533: Implementing Microsoft Azure Infrastructure Solutions
- ITIL V3 foundation

EXTRA CURRICULAR

- Awarded as an "Employee of the Quarter Q1-2018" for cost-effective implementation of service improvements to reduce the overhead cost for the client.
- Represented as a class representative for MSc AI 2019 in National University of Ireland, Galway.
- Volunteered for ACCESS department of NUI, Galway open day 2019.

REFEREE

- Dr James MacDermott [Lecturer in Computer Science at National University of Ireland, Galway]
 Email: james.mcdermott@nuigalway.ie
- Mrs Smita Mahapatra [Technical Lead (Senior Manager) at Morgan Stanley]
 Email: smitamahapatra08@gmail.com