PRAMOD PADMAKAR NAGARE

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EDUCATION

Northeastern University, Boston, MA. | MS in Computer Software Engineering **| Graduation: Dec 2019 | GPA: 3.5**

Major courses: Business Intelligence & Data warehousing, Engineering of Big Data Systems, Data Management and Database Design, Artificial Intelligence, Advanced Data Science, Cloud Computing, and Application Engineering & Development

TECHNICAL SKILLS

- Programming Languages: **Python, Java, SQL**
- Deep Learning framework: **Keras, TensorFlow, MXNET, ONNX**
- Data Science Packages: **NumPy, Pandas, Scikit-Learn, Matplotlib, NLTK, TPOT, H2O, Luigi**
- Business Intelligence Tools: **Tableau, Power BI, MicroStrategy, Talend, SSIS**
- RDBMS Databases: **MySQL, MSSQL, Oracle, Postgres**
- Big Data Technologies: **MongoDB, Hadoop, Spark, Big Query, HBase, Hive, Pig**
- Cloud Platforms: **Amazon Web Services, Google Cloud Platform**
- Software Development Methodologies: **Agile, Waterfall, ITIL**
- Deployment technologies: **Docker, Kubernetes, Ansible, Helm, Prometheus, Jenkins, Circle-CI, Travis-CI, GitHub**

WORK EXPERIENCE

Machine Learning Engineer Intern | AI Foundry, Wakefield, MA   **Jan 2019 – Aug 2019**

- Designed and developed deep vision models for document image classification
- Developed **product testing utility using Pytest** for quality improvement and better delivery
- Automated keyword image data collection for the classification model with the semi-supervised solution
- Implemented **10x faster and reliable computer vision solution** for the image processing
- Developed a lightweight core software algorithm in Python for document key-value extraction and association
- **Represented development team in multiple successful POC** with clients and sales team

Senior Systems Engineer | Infosys Limited, India   **Jul 2014 – May 2017**

Client: American Express, AZ, USA

- Developed multiple interactive dashboards and reports in MicroStrategy for **Enterprise data analysis**
- Improved report execution with **SQL optimization and process improvement** using automation
- Managed project lifecycle for MicroStrategy BI architecture with **ITIL and Agile Methodology**
- Implemented different database connections for MicroStrategy reporting and ETL systems
- Designed data dimension models for implementing a data warehouse for OLAP application
- Presented **monthly Infrastructure metrics** to clients with **proven strategic solutions** for resource optimization
- Contributed to object migration automation **saving 1000+ hours** and related cost with **improved customer satisfaction**

TECHNICAL PROJECTS

Big Data streaming and batch processing analytics pipeline for Amazon Customer Review Analysis

- Developed a GCP Pub-Sub **data analytics pipeline** with cloud storage, Data Flow, Big Query and python
- Designed AWS Kinesis real-time data processing pipeline with S3, Redshift and Python
- Implemented different interactive dashboard in Data Studio and Tableau for data analytics
- Designed bloom filter and **distributed cache** for high-speed big data filtering to get a review sentiment
- Executed multiple map-reduce jobs on **data persistent and secure Hadoop cluster** hosted on GCP and AWS

Data Integration and interactive dashboards for business analysis

- Developed data **dimensional modeling**, implemented slowly changing dimensions for the Datawarehouse
- Optimized ETL jobs for integrating data from multiple data sources using Talend and SSIS
- Implemented multiple SQLs for data analysis and performed **query optimization** for long running SQLs
- Created **interactive dashboards** using Tableau, Power BI and Looker for business analysis

CICD Pipeline for Recipe application with GitHub - Jenkins – Docker - Kubernetes

- Designed an **HA AWS infrastructure** for hosting Recipe application – frontend and backend using ansible and kops
- Implemented docker container **deployments and rolling updates** on k8s cluster using kops and helm
- Configured an infrastructure for **pod autoscaling and node autoscaling** with resource limit and k8s metrics dashboard
- Collected and visualize application usage statistics with Grafana and Prometheus

EDGAR Earning Call Transcript Sentiment Analysis

- Performed Edgar data wrangling, data cleansing and exploratory data analysis and persisted data on cloud storage
- Compared and contrasted different sentiment analysis APIs provided by AWS, GCP, Microsoft Azure, IBM – Watson
- Implemented different NLP techniques for Earning call transcript sentiment analysis BOW, Word embedding, RNN