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: Artificial Intelligence, Advanced Data Science, Business Intelligence & Data warehousing, Engineering of Big Data Systems, Cloud Computing and Containerizations, 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**
- 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 Software Development | AI Foundry, Wakefield, MA **Jan 2019 – Aug 2019**

- Designed and developed deep vision models for document image classification
- Implemented **10x faster and reliable** computer vision solution for the image processing
- Created a **supervised solution for OCR engine** ground truth data creation which is **1000x+ faster and reliable**
- Developed a lightweight core software algorithm in Python for document key-value extraction and association
- **Represented technical team in POC** with multiple clients and sales team
- Contributed to product testing utility for quality improvement and better delivery
- **Proactive discussion with SMEs** for the process improvements and automation scope

Senior Software Engineer | Business Intelligence - MicroStrategy | Infosys Limited, India **Jul 2014 – May 2017**
Client: American Express, AZ, USA

- Developed multiple interactive dashboards and reports in MicroStrategy for **Enterprise data analysis**
- Created and Optimized **data Integration** jobs from multiple data source to a data warehouse using **Talend and SSIS**
- Presented **monthly Infrastructure metrics** to clients with **proven strategic solutions** for resource optimization
- Improved report execution with **SQL optimization and process improvement** using automation
- Automated object migration using MicroStrategy tools and VB Script resulted in **saving 1000+ hours** and related cost with **improved customer satisfaction**
- Conducted Bi-yearly data analysis for **User Access Certification Audit**, **License optimization**

ACADEMIC 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
- Implemented different interactive dashboard in Data Explorer for data analytics
- Designed bloom filter and distributed cache for high speed big data filtering to get review sentiments
- Executed multiple map-reduce jobs on Hadoop cluster hosted on GCP and AWS

Time-Series home energy consumption analysis and predictive modeling

- Performed EDA, feature engineering, predictive modeling, feature selection, model validation and selection
- Developed different regression models - Ridge, Lasso, Elastic Net, Random Forest, Gradient Boosting, Extra Trees
- Managed multiple feature selection tools Boruta Package, Forward and Backward, Tsfresh, TPOT, RFE
- Created a Flask application for user interface to predict energy consumption

EDGAR Earning Call Transcript Sentiment Analysis

- Performed Edgar data wrangling, data cleansing and exploratory data analysis
- Explored different sentiment analysis APIs provided AWS, GCP, Microsoft Azure, IBM – Watson
- Implemented different techniques for Earning call transcript sentiment analysis BOW, Word embedding, RNN
- Developed ensemble model for better sentiment accuracy

Surveillance application: Guns and Knife object detection

- Image data scraping Beautiful Soup, falcon tools for guns and knife objects
- Generate ground truth data using label image tool for training object detection model training
- Implemented transfer learning using YOLO V2, Faster R-CNN for model training
- Hosted flask application of AWS EC2 instance with SNS-Lambda-SES pipeline to trigger an email