

## 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, 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**
- 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
- Automated keyword image data collection for classification model with the semi-supervised solution
- Developed a lightweight core software algorithm in Python for document key-value extraction and association
- **Represented technical team in POC** with 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
- Developed AWS data streaming for using S3, Kinesis, Redshift and Tableau with 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 a review sentiment
- 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 the 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 BeautifulSoup, falcon tools for guns and knife objects
- Implemented transfer learning using YOLO V2, Faster R-CNN for model training
- Hosted flask application on AWS EC2 instance with SNS-Lambda-SES pipeline to trigger an email