

NAMRATA DESHPANDE

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SOFTWARE AND BIG DATA ENGINEERING PROFESSIONAL

Highly analytical and always curious data enthusiast well versed in researching, evaluating and utilizing the newest set of programming languages, tools, frameworks and technologies to glean meaningful insights from the messiest of data and to communicate these insights using user-friendly and interactive visualizations in varied formats for all audiences.

Advanced Programming: 4 years of professional (+2 years research) experience working with more than four programming (Java, Python, R, SQL, JavaScript) languages on multiple projects. Experienced with software profiling tools for ensuring high quality and reliable software solutions.

Database, Data Warehouse: Experienced in database management and goal-oriented data warehouse design and development.

Self-Starter Team Lead: Focus on optimal performance every time with timely completion while promoting healthy cross functional relationships.

CORE COMPETENCIES

- ✓ Advanced Java, Python, R, UNIX, JavaScript
- ✓ Advanced Relational Database, Advanced SQL, T-SQL, Query Optimization, Execution Plans
- ✓ KPI selection, Data & Dimensional models, OLTP, OLAP
- ✓ Audience specific dashboard and interactive visualizations in Tableau, D3.js, Shiny, R
- ✓ Distributed Computing: Hadoop, MapReduce, Spark, AWS
- ✓ Data Extraction, Wrangling and Cleaning
- ✓ Experimental Design, Hypothesis Testing, Research Methods
- ✓ Machine Learning Algorithms
- ✓ Inferential and Predictive Statistics

PROFESSIONAL EXPERIENCE

ERICSSON INC., Bellevue, WA

A leading provider of ICT technologies and services to customers in more than 180 countries.

Software Engineer | Data Engineering | Internship

June 2016 - Dec 2016

Successfully delivered an automated pipeline for customer data migration for client's (T-Mobile) service delivery gateway enabling the migration of huge datasets (Terabytes) from the old database within minutes making way for a smooth transition to the new version of the gateway.

- **Data Modeling:** Created data models with entity relationship mappings from functional specification provided by the clients. Utilized Java Hibernate ORM framework to implement the model.
- **Automated Data Pipeline:** Enabled the data migration by creating an automated pipeline triggered easily by anyone using command line to perform data extraction from the older SQL Server database, data wrangling and transformation according to new entity model and finally data ingestion using SOAP and REST APIs to the customer database.
- **Performance Tuning:** Optimized the time and resources taken for the migration by performing performance and integration testing. Improved the scalability of the solution by memory and time management techniques like query optimization, memory optimized views and tables, evaluation plans, etc.

ELEVAT IOT, Seattle, WA

A budding Seattle based startup providing IOT platform solutions to customers to enable smart business decisions driven by IOT data.

Data Analyst | Business Intelligence | Volunteer | Internship

Nov 2016 – Jan 2017

Drove the development of platform by analyzing the varied data provided by agricultural machinery and recognizing key performance indicators.

- **Data Exploration:** Extracted the IOT data and performed exploration and inferential operations to visualize trends and associations using Python and Tableau.
- **KPI specification:** Analyzed the data by perspective of operations as well as sales and recognized important KPIs for driving smart decisions.
- **Visualization:** Effectively communicated the findings using interactive visualizations in Tableau.

INFOSYS LIMITED, Pune, India

A multinational provider of technological solutions and services to clients in more than 50 countries.

Senior System Engineer | Full Stack**Sep 2012 - June 2015**

Initially hired as a Systems Engineer. Evolved to a senior engineer while working for multiple projects for clients at different locations. Collaborated with QA and database teams for high quality solutions delivery.

- **Full Stack Development:** Performed back end as well as front end development in a variety of platforms and technologies like Advanced Java, Spring MVC, JQuery, DOJO, EXT-JS, UNIX, SQL Server. Gained holistic experience by performing requirement analysis, web design, development, testing and delivery of software solutions.
- **Drove Technology Evaluation:** Researched and evaluated new technologies, thus enabling improved performances and user experiences. Enabled migration of client's (Boeing Company) website to new front end technologies (JQuery, AngularJS from DOJO) for enhanced feature support.
- **Production Support:** Analyzed and fixed high priority production defects to ensure quality product delivery and high customer satisfaction.
- **Developed Knowledge Transfer Trainings:** Improved knowledge transfer, new employee orientation and thus, resource utilization by developing trainings and reference documents.

EDUCATION**UNIVERSITY OF WASHINGTON, INFORMATION SCHOOL, Seattle, WA**

June 2017

*Master of Science in Information Management (GPA-3.92)**Specialization: Data Science & Analytics, Business Intelligence***INSTITUTE OF ENGINEERING AND TECHNOLOGY, Indore, India**

May 2012

Bachelor of Engineering in Electronics and Telecommunications (GPA-3.86)

ACADEMIC RESEARCH PROJECTS**Implementation of ML Algorithms from Scratch: ([Project Link](#))**

- Implementation of nearest neighbor and KNN from scratch in Python.
- Testing the written algorithm on Boston dataset.
- Cross-validation from scratch to optimize the model.

MapReduce Algorithms in Python: ([Project Link](#))

- Algorithms in Python using MapReduce (Distributed computing) framework.
- Matrix multiplication, inverted index, frequency count, relational joins.

Sentiment Analysis on Live Twitter Data (Raw Text Analysis):

- Live Twitter data extracted from Twitter API
- Sentiment scores calculated using AFINN lexicon in Python.

Prediction of Titanic Survivors: ([Project Link](#))

- Predictive analysis on Titanic dataset to predict survival of passengers.
- Logistic Regression, Bayes Generalized Linear Model and Random Forest Model trained on data in R programming.
- ROC, AUC, MSE used for finding best model.

Global Terrorism Analysis: ([Project Link](#))

- Extracted data from Global Terrorism Database by START.
- Analyzed and created interactive Tableau dashboards to explore the relationships in the data.

Startup & Funding: A scroll-telling (story-telling on scrolling) visualization: ([Project Link](#))

- Visual story-telling project approach to help new entrepreneurs to learn about funding process in US.
 - Data taken from Crunchbase, Quandl.com and Kauffman.org.
 - Data Analysis in R, Tableau and D3.js and visualization created using D3.js, Bootstrap and HTML5
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