

SVETLANA VAZ

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SUMMARY

Data Science and Software Engineering professional with experience in building ensembles using supervised and unsupervised machine learning algorithms and NLP for text classification, sentiment analysis and regression (Naive Bayes, Linear Regression, SVM, Random Forest, XgBoost). Highly interested in predictive analytics and using machine learning to exploit opportunities hidden in big data

CORE EXPERTISE

- Machine Learning Algorithms
- Natural Language Processing
- Design Patterns
- Server Side Development
- Agile, Scrum
- Data Structures & Algorithms

INTERESTS

- Deep Learning
- Big Data
- Recommender Systems

WORK EXPERIENCE

DropThought Inc.

Jan 2014 - Present

Santa Clara, California

Data Scientist / Full Stack Engineer

- Currently building a MultiLingual text and sentiment classification engine
 - ✓ Uses IBM Models for machine translation
- Built an End to End Text and Sentiment Classification Engine using an Ensemble of various strong machine learning algorithms and voting mechanisms on feedback using scikit-learn and Apache Spark MLlib
 - ✓ Accuracy achieved >**93%**
 - ✓ Automated vigorous data pre processing before running the final Classification Algorithm
 - ✓ Classification Algorithm is both space & time efficient
- Developed the server side for the core instant feedback capturing product used by Enterprise clients such as Cisco, Adobe, Sony Playstation, Juniper
 - ✓ Wrote the Node js layer to communicate between the API and the front end built using Angular js
 - ✓ Introduced a security layer to encrypt data both at the front end and on the transport layer
- Integrated an analytics software tool 'Tableau' into DropThought
 - ✓ Automated data updates using a MySQL connection
 - ✓ Embedded tableau results onto a dashboard for enhanced visualization & added a security layer to restrict access to authorized users
- Developed an automated API testing suite with a web interface
 - ✓ Built a robust testing suite to test every API call using Frisby.js, Jasmine, Node.js, Express, Html 5, CSS and Javascript thus reducing manual testing effort by **75%**
- Developed a sentiment based language analysis web app using Natural Language Processing
 - ✓ Eliminated manual topic and theme extraction
 - ✓ Created word cloud of uni, bi and trigrams of the input feed using NLTK, d3.js, Node.js and Express

Heal the Bay

Santa Monica, California

May 2012 - Dec 2013

Volunteer Force.com Developer

- Redesigned and Normalized the salesforce database that stored account/contact details of donors
 - ✓ Developed apex triggers, classes and workflows from scratch
 - ✓ Salesforce API Integration and report generation

Barclays Bank PLC, Credit Cards
Pune, India

Aug 2010–Sep 2011

Solution Architect

- Recommended future state business requirements, processes, technologies, applications and information systems to create the ‘to-be’ target from an ‘as-is’ baseline
 - ✓ Performed gap analysis and cost vs. effort estimation
- Defined & validated technical requirements & architecture quality attributes and accordingly recommended technical solutions for application integration
 - ✓ Provided high level solution for client-server and N-tier critical applications

Swisscom IT Services Finance AG
Zurich, Switzerland

Aug 2007 - Jul 2010

Consultant, Senior Software Engineer

- Developed features for a securities lending product to service borrowing and lending, repo, synthetic finance, collateral management and risk management
 - ✓ Analyzed & estimated story points for user stories using poker estimation
 - ✓ Developed user stories using Core & Advanced Java
 - ✓ Wrote unit tests using JUnit

Investment Banks in London & Australia
Sydney, Australia & Tonbridge, UK

Jan 2004 - Jul 2007

Consultant, Java Developer

- Maintenance of a Business forex service that facilitated transactions for import, export, foreign currency borrowings, foreign currency investments, profit & interest repatriation
 - ✓ Design of use cases and Use case diagrams using Rational Rose
 - ✓ System Testing and Bug Fixes

TECHNICAL EXPERTISE

	Proficient	Competent
Programming Languages	Java, Python, Javascript, SQL, Force.com, R	Obj-C, L ^A T _E X
Machine Learning Toolkits	scikit-learn, Apache Spark MLlib	GraphLab Create
Operating Systems	Linux, Unix, OS-X	Windows
Platforms & Frameworks	iOS (Xcode), Express.io, Node.js, NLTK, Apache Spark	Spring, Hadoop
Testing	JUnit, Frisby.js, Jasmine	PyUnit
Version Control	Git	Subversion
Tools & Utilities	Eclipse, Tableau, RStudio, OmniGraffle, Sublime	QFTest, Collabnet, TOAD
Databases	MySQL, redis, SQLite	Oracle
CRM	Salesforce	

CERTIFICATIONS

Certificate	University	Grade	Earned Date
A Crash Course in Data Science	Johns Hopkins University on Coursera	100%	Oct 2015
Managing Data Analysis	Johns Hopkins University on Coursera	100%	Oct 2015
Data Science in Real Life	Johns Hopkins University on Coursera	95%	Oct 2015
Introduction to Big Data	University of California, San Diego on Coursera	96%	Oct 2015

EDUCATION

<i>Post Graduate Certificate, Computer Programming</i>		
University of California (Extension), Santa Cruz, CA	GPA: 4.0	Aug 2014
Project - Forecasting the severity of Seasonal Influenza using Supervised Machine Learning		
<i>Post Graduate Award, Mobile Application Development</i>		
University of California (Extension), Santa Cruz, CA	GPA: 4.0	Aug 2014
Project - Loyalty Rewards Program for a Point of Sales System		
<i>Bachelor of Engineering, Computer Science</i>		
PCCE, Goa, India	1st class Distinction with honors	Aug 2003

REFERENCES

References provided upon request. (Online references available at LinkedIn).