Raja CSP Raman

raja.csp@gmail.com   https://www.linkedin.com/in/rajacsp
http://github.com/rajacsp   https://github.com/teamtact
https://www.kaggle.com/rajacsp   https://rajacsp.github.io/mlnotes/
574, Milverton Blvd, Toronto, ON, M4C 1X5
647-786-1627

Experience Summary

- 6 years' experience in Python and Python & Flask.
- 2 years' experience in ML & Rapid ML Prototyping (research work - prototype – POC - scalable).
- 7.5 years' experience in Spring Framework, Independent Applications/Modules.
- Implemented Learner Partner predictor (KNN Classifier) among 1400 users.
- Hands-on experience in NLTK, Spacy, TensorFlow, Keras.
- Hands-on experience in Kubernetes, Microservices, RabbitMQ, ETL, Data collection & Cleanup.
- Presented a paper on Naïve Bayes and Developer skills authentication (http://bit.ly/2UrdyFa)
- Technology growth predictor by using ARIMA time series by using Stackoverflow Data.
- Hands-on experience with REST, PostgreSQL, Flask, NumPy, SciPy, NLTK, KNN, NB Classifier, Microservices.
- 4.3 years' experience in Core Application / Solution Architecture (4M to 40M User base).
- Authored a book in Spring 5 (Building RESTful Web Services with Spring 5 – http://amzn.to/2IMjZhk).
- Gamer, Weapon classification, Product Classifier introduced using KNN & NLTK.
- Introduced Amazon AWS modules and improved the modules management.
- Nurtured 1000-member Developer community (non-profit)
- Strong platform experience with Windows, Linux (CentOS & Ubuntu 14.04/16/04).
- Conducted workshops on Python, NumPy, Spring Boot, Python for Machine Learning

TECHNICAL BACKGROUND (in years)

Technologies	n years		
Python for ML	6	TensorFlow, Keras, PyTorch, AWS ML	1
MySQL	11.5	Hibernate, Spring MVC, REST	7.5
SQL Server, Postgres, REST API	9.5	NumPy, Scikit, Matplotlib, NLTK, Spacy	4
RabbitMQ	0.6	GitHub, GitLab	4.5
ORM, Data Cleaning	2.5	Hadoop, PySpark, Nuclio	0.6
Amazon AWS Components	9	ML Prototyping, Docker	3
SVN, Mercurial, Git	8.5	R, Gensim, Microservices, Kubernetes, AWS ECS, Fargate, Cloud Formation	1
Flask, Jupyter, ETL	4	Architectural Design & Scaling	4.5
KNN, NB, NLTK, ML Algorithms	2.7	Research work and ML Plugins	1.2

PROFESSIONAL EXPERIENCE

Lead Developer - Machine Learning   www.kwikee.com/labs
Kwikee Labs — Research Unit for SGS   *Feb 2019 – present (1.2 years)*
Technologies Used: Python, TensorFlow, Pandas, Scikit, Numpy, Scipy, Flask, Keras, ORM, REST
- Product Image classification using TensorFlow 2 (1M datasets into 40 categories)
- Bounding box identification using TensorFlow 2 (AutoML replacement work)
- Product classifier (custom) implemented in the batch processing and distribution channels

Email: raja.csp@gmail.com
647-786-1627

Raja CSP Raman

raja.csp@gmail.com https://www.linkedin.com/in/rajacsp
http://github.com/rajacsp https://github.com/teamtact
https://www.kaggle.com/rajacsp https://rajacsp.github.io/mlnotes/
574, Milverton Blvd, Toronto, ON, M4C 1X5
647-786-1627

- Global printer classification and identify anomalies, Quick Search with NLTK.
- ETL work on Global products and classification.
- Distribution Engine Architectural redesign including customized data engineering and visualization models.

ML Research Lead   www.talentaccurate.com

TalentAccurate —India (Remote work – Part time)   *Jun 2018 – present (2.1 years)*

Technologies Used: Python, SciPy, Pandas, Flask, ORM, Amazon AWS, REST

- Similar developer prediction based on developer learning, skills (Similar to Shazam algorithm)
- Developer skills authenticator (KNN & Customized Bayes algorithms) and working on the research paper.
- Error Classifier - Based on NB algorithm to classify the error to be in Python or Java or other.
- Developer Simple search with NLP.

Application Architect   www.smilegatewest.com

Smile Gate West — Toronto, Canada   *Feb 2015 – Jan 2019 (4 years)*

Technologies Used: Java/J2EE, Spring MVC, Hibernate, Mybatis, ORM, Amazon AWS, REST, SOAP

- Gamer, Weapon classification and buyer prediction prototype with 87% accuracy rate.
- Social health check analyzer provided using ML Algorithms & NLTK libraries (Vader).
- Buyer prediction introduced by analyzing 7-year data collection.
- New Core APP Architecture introduced to support independent Layers.
- Reduced Third party dependencies and Cost up to 30%(Iovation) on Security and Hacker Identifier
- Implemented Microservices as a research and POC work.
- APP Business policies segregated on Layer level to avoid coupling issues.
- Buyer classification and prediction introduced with KNN support.
- Provided various ML prototypes to check buyers' health and activities.

Co-Author - Building RESTful Web Services with Spring 5   *www.packtpub.com*

PacktPub   *Oct* 2014 – Jan 2015 (4 months)

Technologies Used: Spring Boot, Spring REST, Spring AOP

- Simplified all Spring components with the updated Spring Boot and Maven version.
- Targeted for Intermediate Spring REST audience for migration and tech upgrading purpose.

Software Developer II   *www.gtech.com*

GTECH - OLG — Toronto, Canada   Feb 2014 – Feb 2015 (1 year)

Technologies Used: Core Java, J2EE, Sling, Apache, CQ5, JCR

- Redesigned all components/templates to meet AODA/ADA Standards (WCAG 2.0 A)
- I18 key collector: add-on like tool for CQ5 Architecture.
- Redesigned all components, templates to meet AODA/ADA compliance/standards

Software Developer   *www.audienceview.com*

Audienceview Ticketing Corp. — Toronto, Canada   November 2011 – December 2013 (2.1 years)

Technologies Used: Java/J2EE, Spring MVC, JSP, JPA, HQL, JavaScript, HTML 5, CSS 3, JQuery, SVG, SQL Server

Email: raja.csp@gmail.com
647-786-1627

Raja CSP Raman

raja.csp@gmail.com https://www.linkedin.com/in/rajacsp
http://github.com/rajacsp https://github.com/teamtact
https://www.kaggle.com/rajacsp https://rajacsp.github.io/mlnotes/
574, Milverton Blvd, Toronto, ON, M4C 1X5
647-786-1627

- Designed and developed reporting tools architecture(Inbuilt JavaScript reporting tool)
- Designed Elemental Storage architecture in reporting tools
- MVC Architecture on Report libraries – (created HTML, PDF and Excel generic report modelling)
- Rewrote entire application to meet **PCI DSS, WCAG 2.0A, AODA** Standards

Software Engineer   *www.nmsworks.co.in*

NMS Works Software Pvt. Ltd., — Chennai, India   July 2006 – September 2009 (3.2 years)

Technologies Used: Java/J2EE, Servlets, JSP, Javascript, HTML, CSS, MySQL

- Developed inventory management tool — JAVA/PHP application to support and organize inventory management; Developed customized mortgage calculator

---

Research / Paper / Book

- Bayes Chain – Developer skills authenticator
- Similar Developer finder using Shazam like unique finder algorithm
- Spring 5 REST – book – Packt pub
- Stack Index - Technology growth prediction by using Time series analysis.
- Error Classifier – Technology predictor based on the error logs.

EDUCATION

- Post-Graduate Diploma in Web Development — Humber College (North Campus), Toronto
- Bachelor of Engineering — Thiagarajar College of Engineering, Madurai, India

---

Personal Products

TactLabs - Developer community where we nurture student developers on open source projects