Allen Philip J

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PROFESSIONAL EXPERIENCE

JDA Software Pvt Ltd, Senior Software Engineer   **(Dec 2016 - Present)**

- *Extreme Gradient Boost Model for Promotion Optimization Retail*
  - Leading the **PoC analysis, planning, technical design, implementation and performance testing** of a **gradient boosted decision tree** based **batch processing solution** for promotional sales forecasting
  - Designing a **distributed and scalable solution** to a customer with **over 30 million SKUs in production**
- *Multivariate Learning Model for Promotion Optimization Manufacturing*
  - Led the technical design and implementation of a production ready **new generic machine learning model for promotional sales forecasting**
  - Integrated the promotion optimization process with the existing JDA Promotion Optimization product and **attained forecast accuracies over 80%** in **highly sensitive markets**
- *Customer Support*
  - Providing **support for multiple customers issues** and **assist with the deployment** of the JDA Promotion Optimization product
  - Driving the **tuning of the Promotion Optimization batch processes** to fit within SLAs for customer with **over 60 million SKUs** in production
- *Autonomous Promotions Planner*
  - Designed and implemented PoC for a low touch solution to improve **promotion planning process** using Machine Learning and Predictive Analytics
  - Built **REST APIs and a NodeJS web app** to capture the configuration parameters for generating the promotions, display the recommendations and support integration with existing JDA solutions
- *Miscellaneous Projects*
  - Worked on **data masking and replication using Python** and NodeJS and exporting them as SQL scripts for automation testing and a **log parsing tool to organize log** data them into **excel** scripts

Oracle India Pvt Ltd, Application Engineer   **(June 2014 – May 2016)**

- Server-side implementation of **core B2B functional flows** including user management, multiple catalog and price list management as part of an upcoming Oracle Cloud Commerce product
- Worked on several front end and backend development projects implementing functional features, projects on improving code coverage and code optimization on the Oracle Cloud Commerce product
- Designed and implemented a **product catalog search with typeahead** as well as a **neighbourhood based recommendation system** for suggesting products to users for a sample fresher project

INTERNSHIPS

- **Predible Health, Data Scientist**   **(June 2016 – Oct 2016)**
  - Designed and implemented a **multi-context deep learning algorithm** for precise segmentation of digital pathological slides of ovaries for **abnormality detection** as a consultancy project for Sunpharma Pvt Ltd
  - Implemented a **post processing pipeline** in **Python** for processing the outputs from the deep learning model and perform connected component analysis on the same for abnormality detection
  - Achieved **100% sensitivity and 95+% specificity** on a test set of over 100 slides

- **Wipro Technologies, Software Engineer**   **(Summer 2013)**
  - Designed and developed a **hybrid mobile application** implementing a Virtual Insurance Advisor application on Android and iOS platforms for tablets

- Awarded a Pre-Placement Interview (PPI) following a detailed evaluation of the project

- **Reliance Telecommunication CoE, Solutions Analyst**   **(Summer 2012)**
  - Separated heart-lung sounds using modulation filtering of the signal's spectro-temporal representation

PROJECTS

- **Learning Theory using Fourier Analysis of Boolean Functions**   **(Fall 2013 – Summer 2014)**
  - Design and analysis of predictive algorithms to learn functions using Boolean complexity theory

- **Machine Learning Coursework**   **(Fall 2012)**
  - Trained an **SVM** to classify test images and performed **cross validation for optimal kernel** selection
  - Implemented image classifier with **back-propagation** algorithm and thresholding weights to avoid overfitting

EDUCATION

Program	Institution	%/CGPA	Year of completion
B.Tech in Electrical Engg	Indian Institute of Technology, Madras	7.27	2014
XII, CBSE	SBOA School & Junior College, CBSE	94.4%	2010
X, CBSE	SBOA School & Junior College, CBSE	91.8%	2008

LANGUAGE & TECHNOLOGIES

- Java, Python, C/C++, SQL, ATG
- HTML, CSS, Javascript, KnockoutJS, jQuery, RequireJS, Bootstrap, NodeJS, ExpressJS
- Torch, Tensorflow, Keras, Pandas, SciPy, NumPy
- Git, Intellij, Eclipse, JIRA, Perforce

POSITIONS OF RESPONSIBILITY

- **Web Operations Core for Sports Organizing Committee**   **(Fall 2012 – Summer 2013)**
  - Designed the first cardinal Sports Website for the institute with student profiles for attracting recruiters
  - Recruited and led a team to carry out the operational requirements of the Sports Organizing Committee
  - Shifted the paradigm to make SOC website the primary source of sports information dissemination

SUMMARY

- Experienced in analysing, designing, building, testing and scaling implementation of promotion optimization models for customers in retail and manufacturing domain.
- Working with supply chain functional experts and data scientists to implement scalable distributed promotion optimization applications with JDA Softwares.
- Strong implementation skills, experienced in product development and with lot of initiative to learn and drive support projects