SARANYA MANDAVA

MACHINE LEARNING ENGINEER

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Around 6 years of Professional IT experience with TATA Consultancy Services in design, development of web applications using Python, Java, SQL, Hadoop (Certified Cloudera Hadoop & Spark Developer). Currently working on machine learning models with various types of data: Image and Text using Supervised, Unsupervised Machine Learning models, Regression Analysis, CNN, Keras, Tensorflow.
CCA Spark and Hadoop Developer: License 100-020-823

Skills

LANGUAGES
Python
Java
SQL
Spark
C/C++
Scala

TOOLS
GIT
Eclipse
IntelliJ
Page Builder
Quality Centre

OTHER
Tensorflow
CNN
LaTeX
Pandas, Scipy, Scikit, Numpy
Keras

Education

Andhra University, India
Bachelor of Technology Information Technology

Experience

Lambda School
Machine Learning Engineer — Apr. 2018 to Current
- 6+ month Full-Time Data Science/Machine Learning program
- Detailed curriculum starting with the foundations of Data Science/Machine Learning – eventually leading to launching
- advanced statistical models
- Learned how to write and present an argument using classical rhetorical structure as well as writing a technical and informative
- article.
- Gained experience working with clients and understanding client demands by collaborating on full life cycle projects
- Completed all curriculum coursework including; Python, Docker, Flake8, R squared, Accuracy, Root Mean Squared Error, AUC
- ROC, Statistics, Linear Algebra, Data modeling, Research and presentation of data, Data Engineering, Pipelines, SQL, Spark, Scala and CNN.

CITI Bank
Developer — June 2016 to Dec. 2016
The Existing CITI website (CBOL)(http://www.citibankonline.com) provides users to perform various operations with Pre-login (e.g.: applying for a new credit card) and Post login pages (Checking the account activity, paying bills etc.). These webpages requires modifications on a day-to-day basis.
Tools & Technologies : Eclipse, SNOW, SSH Secure Shell, SQL Developer, Jenkins, ASDP, DP4 (Frameworks similar to Struts and Springs), Java
- Understanding requirements by going through specifications and with inputs from Clients in order to efficiently design, develop
- and test the website.
- Analyzing the production issues, provide solution to stakeholders, test and implement the solution provided to enable
- application availability as per agreed service levels.
- Involved in monthly code releases for bug fixes.
- Perform unit testing, integration in the lower environments for testing.

Nokia, Microsoft Mobile OYJ
Developer — Sept. 2013 to June 2015
Workflow Management platform had applications built on Serena Tool, which is a BPM Tool from IBM. It had 3 applications: Workflows to deal with different actions performed by Nokia/HERE/Microsoft Mobile employees, integrations to different web services presenting with information required to handle the requests, integration with DB.
Tools & Technologies: Python, Serena, XML, XSLT, SQL.
- Developed and deployed Python scripts in windows server for monitoring a critical job every 15 minutes, and sends e-mail in
- case of job failure which has reduced the 22 man hour effort per month.
- Handled Nokia to Microsoft re-branding changes.
- Automated the process of removing unwanted log files in window server.
- Developed XSLT Script for automating Data Archival.
- Developed Java Script for automating License cleanup in Serena.
- Conducted training on IBM Serena for a 7member development team and was appreciated by management for the initiative.

The Home Depot, Inc.
Developer — Feb. 2012 to Aug. 2013
The Existing HD.com site provides information to customers on various services o□ered by The Home Depot. Many of these contents are static content and are changed on a need basis. Documentum handles the static content in all lower environments and to some extent in production. It handles the development of templates and building of pages and migration contents across all pages.
Tools & Technologies: XML, XSLT, Web Publisher, Quality Center, XML Spy.
- Create Static Content using Standard Templates in Web publisher tool.
- Create Webpages for HomeDepot in page builder tool in various environments and test it.
- Involved in bridge calls with other team members and

Projects

Gender Prediction
Amazon has contracted your team to do an exploratory data analysis on product reviews. In particular, they are interested in being able to classify people as male or female based on their reviews. They have given you a dataset of customer reviews of grocery and gourmet food items.
- Create a model that identifies a person as male/female based on their review (regardless of product).
- Labelling all the reviews in the dataset with Gender using Gender Guesser Python Library.
- Preprocessing the Data using NLTK.
- Used natural language processing(NLP) techniques and ML models to predict the gender of Amazon grocery and gourmet food reviewers.
- Used Flask for deploying the model to production and integrated with UI.
- More Explanation can be found at https://medium.com/@mandava807/gender-guessing-based-on-writing-part3-building-the-models-bbb918ea44.

Cancer Prediction
A simple tool where a user can upload images to test whether cancer is present or not.
- Build a machine learning model using Resnet and trained on image patches with and without cancer.
- Model achieves 90% accuracy.
- Used image augmentation, resizing and downsampling techniques on the image dataset.
- Used tensorfow.js to integrate keras model with javascript.
- More Explanation can be found at https://medium.com/@mandava807/importing-a-keras-model-into-tensorflow-js-b09600a95e40