**Smit Ambalia GitHub : https://github.com/smitambalia**

**+91 6351387041 Programming Languages :** Python**,** Tensorflow , Keras

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**PROFESSIONAL EXPERIENCE**

**Deep Learning Intern Aug 2020 - Present**

**iNeuron.ai**

* Working on Cancer Detection(Lung,Breast, and Colon Cancer) problem on DICOM images.
* Implemented different CNN architecures like sequence of Activations , Convolutions , Dropouts , Pooling to improve accuracy
* Applied various Image Augmantation techniques to generate more images which helps to improve the performance of the model
* Implemented Normalized preprocessing techniques on Images for numerous models to reduce loss quickly.
* Have used different pre-trained models like VGG16,Xception , DenseNet101 and performed with the help of open-source library Monk.

**Environment:** GIT, Python, NumPy, Pandas, Flask (APIs), Visual Studio Code (IDE) , Keras , Tensorflow

**Machine Learning Engineering**

**Applied AI Course, Online (Training) Dec 2018 - Current**

Trained in Machine Learning (**ML**) using Python, and Deep Learning with TensorFlow and Keras.

* Worked on Classification problem using K-NN, Logistic Regression, Naïve Bayes, Support Vector Machine , Random Forest, XGBoost alogorithms, and plotted AUC graph on train and cross validation data, and tuned hyperparameter to prevent model to overfit, used W2Vec,BoW,TFIDF to vectorize text data and obtained desired AUC score in python.
* Developed a model that predicts whether an order for a given product can go on backorder or not, exposed APIs using Flask which can predict backorder of the product for a bulk and a test data.
* Developed CNN models on MNIST datasets to predict handwriting images correctly, and obtained batter accuracy.
* Developed DenseNet model on CIFRA-10 datasets to classify 10 classes, used image augmentation, and achieved 90 up accuracy on train and test datasets.
* Deployed Sentiment Analysis Prediction on AWS Cloud with EC2 instance.

**Environment:** GIT, Python, NumPy, Pandas, Flask (APIs), Visual Studio Code (IDE) , AWS , Keras , Tensorflow

**Software Engineer Intern**

**Improvised Tech Solutions, Rajkot, Gujarat Nov 2019 - April 2020**

* Hands-on experience with relational databases and NoSQL databases (MongoDB, MySQL).
* Learned best practices of version control tool **GIT**.
* Developed APIs in Node.js that interact with backend database (MongoDB).
* Developed Front-end with Nuxt.js that interacts with backend APIs
* Knowledge in unit and integration testing with Mocha.
* Used best development practices for quality code.

**Environment:** GIT, Node.js, Vue.js, Nuxt.js, MongoDB, MySQL.

**Hadoop Administrator (Training)**

**GRASS Solutions Feb 2018 - Nov 2018**

Trained in Hadoop Administration.

* Manageinstall up to 4 nodes Hadoop cluster, added and removed nodes from the cluster, configured the NameNode high availability.
* Performance tuning of Hadoop clusters.
* Installed Hadoop echo systems, for example, HBase, MongoDB, Cassandra, Pig, and Hive, Sqoop, Zookeeper, Oozie.

**Hadoop Developer (Training)**

**Edureka Training Center Jan 2017 – July 2017**

Trained in Big Data Hadoop Ecosystem which includes **Sqoop, Hive, Pig Latin** (Data Flow Languages) and Custom **MapReduce** programs in java.

* Worked on Hive data warehousing tool for creating tables, and optimizing Hive Query.
* Developed MapReduce jobs in java on unstructured files for YouTube data analysis project to YouTube video trending predictions, removal and detection of adult content in Linux Environment.
* Worked on Airlines Analysis project by injecting unstructured data into HDFS, created tables in HIVE, load that data from HDFS to perform query in HIVE for Airline data analysis which includes flight delays, fuel consumption.
* Worked on StackOverflow data analysis project, used Pig Latin ecosystem for data analysis.
* Worked on Movie Data Analytics project, loaded unstructured data into HIVE tables, analyzing the data by performing Hive queries.

**Environment:** MapReduce, HDFS, Sqoop, Hive, Pig Latin**, CentOS, Hadoop, YARN**.

**Oracle DBA**

**UM-KECC, Ann Arbor, MI Feb 2016 – Sep 2016**

The **University of Michigan Kidney Epidemiology and Cost Center (UM-KECC)** is an interdisciplinary research group drawing from the Departments of Biostatistics, Health Management and Policy, Surgery and Nephrology.

As an Oracle DBA, I was responsible for Installing, Configuring, managing 10g,11g,12c database, Configuring OEM, migrating 10g and 11g Oracle databases to 12c database in Production environment, backup and recovery, performance tuning, training junior Oracle DBAs.

* Installated and created of 10g, 11g, and 12c Databases for Development, Quality and Production environments and upgraded from 10g to 11g, 11g to 12c.
* Performance Monitoring ,capacity planning, and Security Compliance (FISMA).
* Compiled and validated data; reinforce and maintain compliance with corporate standards.
* Fixed numerous SQL queries, varying from simple to complex, multi-page queries.
* Configured RADIUS for two-factor Authentication in Windows and Linux environment
* Performed all daily maintenance tasks like monitoring job failures.
* Performed logical backup & recovery using export/import utilities and Datapump
* Performed SQL and PL/SQL tuning and Application tuning using various tools like AWR, SQL\*TRACE, TKPROF and AUTOTRACE.
* Documented Database management practices.

**Environment**: Oracle 10g/11g/12c, DBCA, DBUA, Export/Import (EXP/IMP), Data Pump.

**EDUCATION**

* Master in Computer and Information Science, Cleveland State University, USA , **May 2015**
* Bachelor of Technology, Computer Engineering, Atmiya Institute of Technology, GTU India , **June 2012**
* Diploma in Computer Engineering, AVPTI Rajkot, Technical Examination Board , GTU India, **June 2009**

**CERTIFICATION**

* Accessing Hadoop Data using Hive at Big Data University
* MapReduce and Yarn Certificate at Big Data University
* Hadoop 101 Certificate at Big Data University
* Big Data and Hadoop Developer Certificate at Edureka Training center
* Oracle Certified Association (OCA) in 10g, Oracle SQL Expert Certified in 10g