MANTHINA, MANI MADHURI

https://www.linkedin.com/in/mani-madhuri-manthina-917b1a88/

USCViterbi
School of Engineering

PROFESSIONAL EXPERIENCE SUMMARY

- Over 6+ years of experience in IT working on Business-Critical Databases with extensive knowledge in **Data Sciences**, **Machine Learning**, Predictive Analytics, **Data Visualization**, Business Analysis, **Oracle Database administration**, Data warehousing/Decision Support Systems and Reporting in Oracle, Applied Statistics, ETL processing, **Data Engineering**, Statistical Analysis
- Extensive knowledge on **Shell** scripting, **Python**(including external libraries such as Numpy, Scikit Learn, Pandas, Matplotlib and Machine learning libraries), **SQL** , **MySQL, and Pyspark**
- Implementation expertise in supervised, unsupervised, reinforcement learning, active and semi-supervised learning and neural networks and basic understanding with **Hadoop**, **Big Data**, **MongoDB** and **R Language**
- **Led** installation and configuration of Oracle database and Hyperion environment for customers and proactively resolved and arrested several recurring issues
- Specialized ability in installation, configurations, **analysis** of large sets of data with **SQL queries** and AWR report analysis, and automation utilizing Python, Batch scripting and shell scripting
- **Trained** resources on technology and business processes and offered several knowledge transfer sessions

SKILLS

- *Languages: Python, Pyspark,* Shell Scripting, Bash Scripting, HTML, CSS, JavaScript, **SQL**, PLSQL, MySQL, C, **C++,**JSS, Java**, R, PostgreSQL, GO**
- *Data Science skills:* Scikit-Learn, Pandas, Numpy, Matlplotlib, **NLTK**, **Keras**, **Tensorflow**, **PyTorch**, Mongo Db, **Hadoop**, **Data Analysis**/ Processing, Implementation Expertise in Apache Spark, **Tableau**, Django Framework, **Deep Learning**, Computer Vision(**CV**), Natural Language Processing(**NLP**), Statistical modelling and Probability, Optimization, Data Mining, Microsoft Excel, **data cleaning ,Amazon Sagemaker, EC2, S3**
- *Cloud Platform and tools:* **AWS** Cloud, Amazon RDS, Oracle Cloud, Firebase, Oracle Enterprise Linux, Red Hat Linux, Windows, Google Cloud Platform
- *Oracle and other Skills:* Oracle Databases (9i, 10g, 11g, and 12c), Oracle E-Business Suite (11.5.10.2, 12.1.3, 12.2.4 and 12.2.5), Oracle Hyperion EMP (11.1.2.4), Weblogic(11g)

WORK EXPERIENCE

University of Southern California |June 2019-Present| IT Student Analyst

- **Restaurant and Recreation Recommendation System| Kiana Analytics** – Applied hybrid clustering procedures on Rio de Janeiro airport spatial data, to label group and solo travelers and implemented a dashboard for recommendation system to offer suggestions about restaurants and recreation for group and solo travelers in and around airport. Also build a predictive dashboard to find future airport group/solo traffic. Project was implemented in Lean Six Sigma methodology
- **IoT 'Smart-Home'** – Build web-applications to simulate IOT kind of data and build a dashboard focused at analyzing and producing device statistics such as device daily usage and failures and then automated the device run-cycle based on the past usage
- **Chatbots –**Trained a deep learning model using Cornell Movie-Dialogs Corpus to build a human-like interactive chatbot
- **Text Prediction** - Build a generative model to mimic the writing style Bertrand Russell by applying long-short term memory and model performs with a low Mean square error of 0.0129
- **Image Coloration** – Colored a gray-scale image from 6000 member CIFAR-10 dataset using deep convolutional neural network with two convolution layers and achieved an accuracy of 94%
- **Powerplant Dataset Feature evaluation** – Found the most important features required to predict the net hourly electrical energy output (EP) of the plant with Linear Regression and KNN and achieved a 99% accuracy on KNN (93% on Linear regression)
- **Time Series Data Classification**-Classified sensor collected human activity recognition data by applying Logistic Regression(and comparison with Naïve Bayes Classifier) and achieved around 78% accuracy(around 60% accuracy on Naïve) on test data using cubic model
- **Truck Components failure Data Classification -** Classified Air Pressure system captured data from that of data collected from all components, using Random Forests Classifier, and achieved an accuracy of above 95%

Apps Associates, Hyderabad, India |December 2013 - 2018 | Staff DBA Consultant

- Performed analysis of alert trends monthly data and could reduce monitored alerts count from 1800+ to less than 15 noiseless alerts. Performed root cause **analysis** and Tuned data and SQL queries to improve performance during full data loads via Apex application.
- Worked with certificate installation for SSL, dealing with hardware/networking issues,
- Created ASM disk groups for Production environment and helped reduce unexpected downtime. Migrated business environment from on-premise server to **AWS Cloud**. Setup Database disaster recovery environment. Addressed critical P1 issues due to AWS faults.
- Identified patterns of incremental time of file copy during a regular patching of EBS environment, investigated root cause and implemented resolution to **reduce downtime** taken for patching application from more than 12 hours in each clone to less than 4 hours

Clients: Parametric Technology Corporation, Aptitude-Revstream, Atlantic Diving Supply, Cvent-Lanyon, Quantcast, Topps, Empirix, Randstad, MSIG, AMSC, Millipore, Navinet, Smiths Medicals, Canon, Sherms, Ship Console, JOC, Sensata, Otsuka, ACL, Amazon Robotics and Patheon, Dunkin Donuts

EDUCATION

University of Southern California, Los Angeles, CA | Master of Science in Data Informatics   **Graduating in December 2020**
Jawaharlal Nehru Technological University, Hyderabad, India | Bachelor of Technology in CSE   **May 2013**