

SWAGAT DASH

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SUMMARY

- 5.5 yrs of extensive IT experience Development, Support, Implementation of software applications which includes Hands on experience on developing **Machine learning applications, Deep learning, Computer vision, Data modeling, Data visualization, Hadoop, Hive, PIG, Sqoop, Hbase, Oozie, spark and MapReduce** Programming.

PROJECTS

- **Built a regression model to predict the cost of restaurant for two people - (<https://github.com/Swagatd/zomato>)**
Used the zomato dataset to built end-to end model which predicts the cost of restaurant for two people. Divided the data into clusters using **KMeans** algorithm and then applied **Decision Tree Regressor** and **XGboost** to find the best model. Finally model is deployed into **pivotal** web service platform.
- **Built a classification model to predict the quality of wafer sensor- (<https://github.com/Swagatd/faultywafer>)**
This model predicts the quality of wafer sensors. Dataset was divided into clusters and different models were created using **Random Forest and Decision Tree Classifier**. Finally AUC score was compared to select the best model for each cluster.
- **Built a regression model to predict the calories burnt based on the given indicators in the training data -**
This application is built to predict amount of calorie burnt based on day's activities Data is extracted from Fitbit API, loaded into table after doing preprocessing and cleaning. Then **Decision Tree and Random Forest** algorithm are used to create the model and compared both the models.
- **Built real estate price prediction model- (<https://github.com/Swagatd/BHP>)**
Created a regression model using Bangalore home prices dataset and this model predicts the price of home based on home square ft area, bedrooms etc. I have handled the NA values, removed unnecessary feature and also applied normalization.
- **Built end-to-end big data project for web log analysis -** Gathered the log files information. Programmed on the log files to identify the visitor behavior, search engines, browsers and operating system.

Technology used : HDFS, HIVE, PIG, Flume, Cloudera 5x, Spark, Airflow and Grafana

- **Chatbot projects- (<https://github.com/Swagatd/weatherbot>)**
Built COVID -19 and weather forecast chatbots using **google diagflow, RASA, Amazon Lex and Azure LUIS** and deployed in **AWS and Pivotal** cloud platform.

SKILLS

- **Technical Skills**

- Data Science
- Machine learning

Python, Tensorflow, Pytorch, Keras, R, SQL, SAS, Hive, Pig, Pyspark, Spark SQL, Airflow, Cobol, JCL

Visualization Tools : Power BI, SAS, Adv. Excel

Frameworks : Hadoop, Mainframe

Databases : Hadoop HDFS, MongoDB, DB2 SQL

Debugging Tools :
INTERTEST, ENDEVOR

- Building Chatbots

Programming Languages :

- Deep Learning and computer vision
- Statistical analysis
- Data collection and analysis
- Data formatting
- Data visualization

WORK HISTORY

Oct 2018 - Current
Hyderabad, Telangana

Technology Analyst / Infosys Ltd

Developed **regression model** to predict future energy consumption based on past energy usage history. This model helped business development managers to have richer conversations with customers and help them in taking better decisions to achieve their energy efficiency goals.

- Written many complex **SQL** queries to analyze bad data and produced various reports using **SAS and Meta 5** tool by querying 4M+ data in **DB2** table.
- Applied transformations logic using **Pyspark and Hive** queries on **DB2** tables and created reports to be used by downstream models
- Figured out new problem areas and automated many manual reports and implemented them in **SAS, Hive, Pyspark** and scheduled them using **Oozie** scheduler which saved 87% of time and approximately \$2.5M cost.
- Interacted with customer to gather and understand requirement, created IA (impact analysis) report based on impact, effort and test coordinations.

Dec 2014 - Sep 2018
Bengaluru, Karnataka

System Engineer / IBM India Pvt. Ltd

- Wrote and maintained code in Mainframe to increase system efficiency and performance time.
- Participated in all phases of system development life cycle, from requirements analysis through system implementation.
- Authored code fixes and enhancements for inclusion in future code releases and patches.
- Active interaction with business users, participating in onshore offshore conferences with the client, downstream business users and other vendors under consideration.

EDUCATION

Jul 2006 Jagatsinghpur, Odisha	10th Baya Abadhut High School
Jul 2008 Cuttack, Odisha	12th in Science J K B K College
Jul 2012 Bhubaneswar	Bachelor of Technology in Electrical And Electronics Engineering College Of Engineering Bhubaneswar
Jul 2014 Burla,Odisha	Masters of Technology in Power System Engineering Veer Surendra Sai University Of Technology

CERTIFICATIONS

- Completed Machine Learning with Deployment Certification from Ineuron.
- Certified Infosys Agile Developer.
- Completed AHM (Academy for Healthcare Management) certification.
- Completed 40+ hours Big data developer course from Udemy.

ADDITIONAL INFORMATION

- Sharing my knowledge with Data science community through my GitHub (<https://github.com/Swagatd>) page and my own blog (<https://stattalks.blogspot.com/>).
- Participating in various online competition platforms like Hacker rank and Kaggle to enhance my data science skills.