SOFIA DUTTA
Aspiring Data Scientist and Machine Learning Engineer | Email: sofiad1@umbc.edu

SUMMARY

➢ Aspiring Data Scientist and Machine Learning Engineer
➢ 7 years of experience in Software Consultancy and Data Analysis

EDUCATION

Current – 2019	Master's in Data Science, UMBC, Baltimore, USA	4.0/4.0
2010 – 2006	Bachelor's in Computer Science and Engineering, WBUT, India	3.5/4.0

Data Science Projects

📖 Comparison of Word2vec and Doc2Vec model driven Sentiment Analysis using SVM, LR, Keras CNN, Bidirectional LSTM with and without pre-trained Word and Document Embeddings.
  📖 Sentiment Analysis on Amazon laptop reviews: https://sofiadutta.github.io/datascience-ipynbs/sentiment-analysis/Sentiment_Analysis_Amazon_Laptop_Review.html
  📖 Sentiment Analysis on IMDb movie reviews: https://sofiadutta.github.io/datascience-ipynbs/sentiment-analysis/Sentiment_Analysis_IMDB_Movie_Review.html

📖 Data characterization of Baltimore City Employee Salaries to study income inequality in Government
  Link: https://sofiadutta.github.io/datascience-ipynbs/EDA/Data_Analysis_Baltimore_City_Salaries.html

📖 Data characterization of NYC Film Permits to figure out where my favorite films being shot at
  Link: https://sofiadutta.github.io/datascience-ipynbs/EDA/Data_Analysis_NYC_Film_Permits.html

📖 Data characterization of NYC Fire Department data to find impactful events via a data analytics path
  Link: https://sofiadutta.github.io/datascience-ipynbs/EDA/Data_Analysis_NYC_Fire_Department.html

📖 Big-Data Analytics and Sentiment Classification with Twitter Stream Data. See project links below:
  📖 Big data analytics: Tweet Sentiment Classification and Big Data Analytics using Spark Dataframe
  📖 Big data analytics: Tweet Stream Analysis using PySpark
  📖 Big data analytics: Tweet classification via Word2Vec models, Spark MLlib and my own classifier

TECHNICAL SKILLS

Platforms	Mac, Unix, Windows
Languages	Python, Java, SQL, PL/SQL, TSQL
Tools & stacks	Scikit-learn, Keras, PyTorch, Tensorflow, MLlib, PySpark, PL/SQL Developer, Oracle Report/Forms/Workflow Builder
AI Technologies	Knowledge Graph, Semantic Web, Protégé, SPARQL, OWL
Back-end	MongoDB, Oracle (9i, 10g, 11g)
Enterprise tools	Google Cloud, AWS S3, Oracle Fusion 11, Oracle Applications (R12 & 11i)

WORK EXPERIENCE

Current – 2019	Student researcher in Semantic Web and Smart Home Access Control, Ebiquity Group, UMBC, USA
2018 – 2010	Software Consultant and Data Analyst at Tata Consultancy Services (TCS) Ltd., India

TCS PROJECTS

Feb'18–Jan'17	Commercial Bank of Dubai, UAE • Was a key project resource trained to work with Oracle Fast Formulas • Led a team of developers working on Oracle Fusion Human Capital Management (HCM) functionalities like resignation, transfer, promotion, performance rating etc. • Prepared software design and test plans documents • Performed requirement and change analysis.
Nov'16–Sep'16	Kaiser Permanente, USA

ORACLE®
Certified Associate
PL/SQL Developer

ORACLE®
Certified Professional
Advanced
PL/SQL Developer

ORACLE®
Certified Specialist

- Led a team of developers working on Oracle Fusion (HCM) functionalities
- Prepared software design and test plans documents
- Performed requirement and change analysis.

Jun'16–Feb'16	**Hyatt-Oracle R12 Rollout, USA**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Worked on ACH payment, invoice management and HRMS configuration. - Performed requirement and change analysis.
Feb'16–Jun'15	**Staples, USA**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Worked on ACH payment, invoice management and HRMS configuration. - Performed requirement and change analysis.
Jun'15–Jan'14	**DHL, UK**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Handled HRMS and Payroll configuration and administration. - Seamlessly managed data migration activities from Oracle Apps to ERP Suite. - Performed requirement and change analysis. - Tested system functionality and bug fixes.
Jan'14–Sep'13	**Tata Steel, India**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Worked on software design and test plans documents
Sep'13–May'13	**IHCL - R12 Reimplementation, Taj Hotel, Mumbai**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Handled change management activities for Oracle reports, forms and databases. - Seamlessly managed data migration activities. - Worked on software design and test plans documents
May'13–Apr'13	**CMCL - Oracle ERP R12 Implementation, Star Cement, Kolkata**
	Ensured efficient execution of data queries using PL/SQL stored procedures.
Apr'13–Jun'11	**Bangladesh Railway Oracle Apps, Bangladesh Railway, Bangladesh**
	- Ensured efficient execution of data queries using PL/SQL stored procedures. - Developed report generation packages for payroll management - Worked on software design and test plans documents

CERTIFICATIONS COMPLETED

o Oracle 9i SQL (1Z0-007)
o Oracle 9i PL/SQL (1Z0-047)
o Oracle Database 11g: Advanced PL/SQL (1Z0-146)
o Oracle E-Business Suite 12 Financial Management Implementation Specialist: Receivable (1Z0-518)
o Oracle Fusion HCM Base Cloud Service 2016 Implementation Essentials (1Z0-329)
o Oracle Global Human Resources Cloud 2017 Implementation Essentials (1Z0-965)
o Oracle Talent Management Cloud 2017 Implementation Essentials (1Z0-966)