SOFIA DUTTA

Software Developer, Data Analyst & Data Engineer sofiad1@umbc.edu | (\$) https://sofiadutta.github.io/

SUMMARY

- > 7 years of experience as a Software Developer, building systems for clients from all over the world
- > Big Data Analysis, Deep Learning, Machine Learning

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2019 - Present	Master's in Data Science, UMBC, Baltimore, USA	4.0/4.0
2006 – 2010	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.
- Amazon dataset: https://sofiadutta.github.io/datascience-ipynbs/sentiment-analysis/Sentiment_Analysis_Amazon_Laptop_Review.html
- IMDb dataset: 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:
- https://sofiadutta.github.io/datascience-ipynbs/big-dataanalytics/Using_MyClassifier_Twitter_Data_Sentiment_Classification_and_Big_Data_Analytics_on_S park_Dataframe.html
- https://sofiadutta.github.io/datascience-ipynbs/big-data-analytics/Twitter_Stream_Analysis_Using_Spark_Streaming.html
- https://sofiadutta.github.io/datascience-ipynbs/big-data-analytics/Using_SparkMLLib_Word2Vec_Model_Driven_LogReg_Sentiment_MyClassifier_Creation.html

TECHNICAL SKILLS

Languages	Python, Java, SQL, PL/SQL
Tools & stacks	Scikit-learn, MLlib, PySpark, PL/SQL Developer, Oracle Report/Forms/Workflow
	Builder
Back-end	Oracle (9i, 10g, 11g), MongoDB, JSON
Enterprise tools	Google Cloud, AWS S3, Oracle Fusion 11, Oracle Applications (R12 & 11i)
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WORK EXPERIENCE

2019 - Present	Student researcher in Semantic Web, Ebiquity Research Group, UMBC, USA
2018 – 2010	Software Consultant and Data Analyst at Tata Consultancy Services (TCS) Ltd.,
	India

TCS PROJECTS

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Jan'17 - Feb'18	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 Prepared requirement analysis, software design and test plans documents 	
Sep'16 - Nov'16	Kaiser Permanente, USA	

	 Led a team of developers working on Oracle Fusion (HCM) functionalities Prepared requirement analysis, software design and test plans documents
Feb'16 - Jun'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.
Jun'15 - Feb'16	Staples, USA
	 Ensured efficient execution of data queries using PL/SQL stored procedures. Worked on ACH payment, invoice management and HRMS configuration. Prepared requirement analysis, software design and test plans documents
Jan'14 - Jun'15	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. Tested system functionality and bug fixes.
Sep'13 - Jan'14	Tata Steel, India
	 Ensured efficient execution of data queries using PL/SQL stored procedures. Prepared requirement analysis, software design and test plans documents
May'13 - Sep'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. Prepared requirement analysis, software design and test plans documents
Apr'13 - May'13	CMCL - Oracle ERP R12 Implementation, Star Cement, Kolkata
	Ensured efficient execution of data queries using PL/SQL stored procedures.
Jun'11 - Apr'13	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 Prepared requirement analysis, 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)
- Oracle Fusion HCM Base Cloud Service 2016 Implementation Essentials (1Z0-329)
- O Oracle Global Human Resources Cloud 2017 Implementation Essentials (1Z0-965)
- Oracle Talent Management Cloud 2017 Implementation Essentials (1Z0-966)