Sofia Dutta

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Education

University of Maryland, Baltimore County (UMBC), Baltimore, MD Spring 2019 – Fall 2020

Master's Professional Studies, Data Science, GPA: 4.0

West Bengal University of Technology, Kolkata, India Fall 2006 – Spring 2010

Bachelor of Technology, Computer Science, GPA: 3.5

Technical Skills

<u>Data Tools:</u> Sci-kit Learn, Apache Spark 2.4, MLlib, Keras 2.2, Tensorflow 1.15, PyTorch 1.4 <u>Programming Languages:</u> Python, SQL, PL/SQL, Java, Visual Basic, C#, JavaScript, HTML, C++, C <u>Development Tools:</u> PL/SQL Developer, Toad for Oracle, JDeveloper, Docker, Jupyter Notebook, Visual Studio, Google Colab, Oracle Report, Form, and Workflow Builder, Git <u>Enterprise Tools:</u> Google Cloud Platform, Amazon Web Services S3, Oracle Applications <u>Backend Tools:</u> Oracle (9i, 10g, 11g), Microsoft SQL Server, MongoDB, JSON

Work Experience

<u>Ebiquity Research Group, UMBC, Student Researcher, Baltimore, MD</u>

Sep 2019 – Present
Writing papers for IEEE Big Data and Security conferences focusing on Semantic Web, Access
Control, Smart Home Automation

Tata Consultancy Services (TCS), Kolkata, India

Nov 2010 - Feb 2018

Led a team of developers in designing, developing and testing PL/SQL stored procedures. Built API interfaces for PL/SQL stored procedures. Prepared functional specification, requirement and change based regression documents, and test plans for performing system integration testing and user-acceptance testing. Completed client data migration from legacy Oracle Apps.

Publication(s)

Sofia Dutta et. al., "Context Sensitive Access Control in Smart Home Environments", InProceedings, 6th IEEE International Conference on Big Data Security on Cloud (BigDataSecurity 2020), May 25, 2020, Baltimore, MD, USA.

Graduate studies projects

Big Data Twitter Stream Sentiment Analysis @ UMBC

Fall 2019

Data characterization projects using Python Sci-Kit Learn @ UMBC

Spring 2019

Analyzed Baltimore City Employee Salary data to prove there is no income inequality in Baltimore City Government. Studied New York City Film Permits data to figure out top filming locations for popular movies. Combined two different datasets from the New York City Fire Department and showed that it is possible to use data analysis techniques to find high impact incidents