MRIDUL SARAN

Data Scientist **|** Primus Software Corporation **|** Noida
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PROFESSIONAL PROFILE	Data Scientist with 3.3 years of experience working in Artificial Intelligence, Machine Learning, Deep Learning, and Natural Language Processing in Life Sciences, Healthcare, and Insurance Domain • Experience in Agile Development Process and Scrum Methodology for varied requirements. • Familiarity with Collecting, and Compiling Business Data, and generating reports. • Experience working in Python 3.5 with numpy, scipy, pandas, matplotlib libraries. • Experience in Data Analysis and Dashboarding using Microsoft Excel and Tellius. • Experience working in Machine Learning with Python and Azure Machine Learning Studio. • Experience in Analytics/Predictive Modeling and Time Series Analysis. • Experience in NLP for Creation of Bots using Amazon Lex and Microsoft LUIS. • Experience working on Databases using MongoDB 3.2 and Microsoft SQL Server 2012. • Experience in writing JavaScript, jQuery, and AngularJS code for designing and developing Frontend applications. • Excellent verbal and interpersonal skills, good analytical and debugging skills.

EMPLOYMENT HISTORY	**Primus Software Corporation, Noida, India** **February 2018 – Present** **Project: ML/NLP Based Analytics Platform (Internal)** **September 2018 - Present** **Description:** Developing a Business Intelligence and Analytics Platform for data visualization and insights **Role:** Data Scientist **Responsibilities:** • Assessing RASA and Amazon Lex for providing NLP Search. • Consuming Open Source JavaScript (Plotly.js, D3.js) libraries for data visualization. • Using AngularJS and jQuery for frontend manipulation. • Using Machine Learning Algorithms for building custom Predictive Models. • Using ARIMA and LSTM for Time Series Analysis in Python. **Environment:** Django, Amazon Lex, RASA, Python **Project: Insurance (Crawford)** **February 2018 – August 2018** **Description:** Developed a Chatbot using Amazon Lex to perform document search on Company's Insurance Claims **Role:** Data Scientist **Responsibilities:** • Used Amazon Lex for developing the Chatbot application. • Used DynamoDB for storing the JSON and Amazon S3 for storing the Claim documents. • Used Angular for creating the frontend application. **Environment:** Amazon Lex, Amazon Lambda and Python **Tata Consultancy Services (TCS), Bangalore, India** **August 2015 – January 2018** **Project: Life Sciences & Healthcare (Johnson & Johnson)** **September 2017 – January 2018** **Description:** Developed Predictive Models that can be used to keep track of suitable conditions for Medical Devices and Vaccines used by Janssen (Pharmaceutical Companies of Johnson & Johnson) **Role:** Data Scientist **Responsibilities:** • Used Azure Machine Learning Studio for developing the model. • Used Machine Learning Classification, Regression Algorithms for Developing the model. • Used Azure IoT Telemetry to provide Data to the model. • Used Python matplotlib for data visualization. **Environment:** Azure Machine Learning and Python

Project: Life Sciences & Healthcare (Johnson & Johnson)	**May 2016 – September 2016**

Description: Developed an Interactive AI BOT to automate the tasks
Role: Business Intelligence Developer
Responsibilities:
- Developed Bot that works with Natural Language Processing.
- Used LUIS, which adds Conversational Intelligence to the Application.
- Deployed the Bot on Client Portals and Skype.

Environment: Microsoft Bot Framework, LUIS and C#

Project: Life Sciences & Healthcare (Johnson & Johnson)	**August 2015 – April 2016**

Description: Developed a Portal (Glue) which provides unified collaborative communication experience to 265 Client Companies on any device
Role: .NET and SharePoint 2013 Developer
Responsibilities:
- Developed Windows Services (Timer Jobs) for Adding/Updating Logs in the Database.
- Developed ASP.NET Web API.
- Wrote SQL Stored Procedures to delete logs from the Database Tables.
- Implemented the Front End using JavaScript and AngularJS.
- Used jQuery and AngularJS for Forms' Validations.
- Designed a reusable carousel component using Bootstrap and AngularJS.

Environment: ASP.NET with C#, Microsoft SharePoint 2013, AngularJS and jQuery

PUBLICATIONS

Hadoop MapReduce: An Introduction to MapReduce Programming using JAVA perspective	**April 2015**

- **Journal:** International Journal of Advanced Technology in Engineering and Science

Detection of Non-Vital Tissues in Medical Imaging Using Neural Networks	**February 2015**

- **Journal:** International Journal of Electrical and Electronics Engineers

Study and analysis of Segmentation for Medical Images based on K-Means and Fuzzy C-Means Clustering	**February 2015**

- **Journal:** International Journal of Electrical and Electronics Engineers

Cellular Technologies: A Basic Concept	**May 2012**

- **Book Article:** SAET, M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh, India

AWARDS AND ACHIEVEMENTS

Award of Technical Excellence	**July 2017**

- **In Recognition of:** Outstanding Performance for Project Delivery
- **Grantor:** Tata Consultancy Services on behalf of Johnson & Johnson

Star of the Learners Group Award	**August 2015**

- **In Recognition of:** Excellent Performance during Initial Learning Program
- **Grantor:** Tata Consultancy Services

Government Funding for Research Project	**March 2015**

- **Description:** Got approval for funding for the Project - Detection of Suitable Locations for Hydro Power Generation Units
- **Grantor:** Government of Uttarakhand, India

TECHNICAL PROFICIENCY

- **Programming:** Python, C#, C
- **Database Concepts:** MS SQL Server 2012, MongoDB
- **Web Technologies:** HTML, ASP.NET and MVC, JavaScript, AngularJS, jQuery
- **Known Tools/Platforms:** Microsoft Azure Machine Learning Studio, Jupyter Notebook, AWS Lex, Visual Studio 2017

LEARNINGS AND CERTIFICATIONS

• ColumbiaX - DS102X Machine Learning for Data Science and Analytics	**August 2017**
• Machine Learning A-Z course by Kirill Eremenko and Hadelin de Ponteves from Udemy, Inc.	**July 2017**
• Python for Data Science and Machine Learning Bootcamp by Jose Portilla from Udemy, Inc.	**June 2017**
• HarvardX - PH526x Using Python for Research from edX	**June 2017**
• KULeuvenX: DAHx Data Analytics in Health	**February 2017**
• Machine Learning from Coursera	**December 2016**

INTERESTS	• Photography (Nikon Photography School Member) • Coin Collection (Collected 1200 coins of more than 30 Countries)
EDUCATION	**Bachelor of Technology: Computer Science & Engineering** **2011 - 2015** • **College:** Birla Institute of Applied Sciences, Bhimtal, Nainital, Uttarakhand • **Aggregate Percentage:** 80.02% **Class 12th** **2009 - 2010** • **School:** K.V. No. 2, J.L.A., Bareilly, Uttar Pradesh • **Aggregate Percentage:** 70.33% **Class 10th** **2007 - 2008** • **School:** K.V. No. 2, J.L.A., Bareilly, Uttar Pradesh • **Aggregate Percentage:** 80.20%