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Shraddha Singh

Data Scientist

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Data Scientist with 3+ years of experience in designing data solutions for various client and research problems. Looking for a role focused on implementing machine learning algorithms for business solutions in any domain.

SKILLS

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| Tools and Languages | Python, Git, PyCharm, Jupyter, Tensorflow/Keras, Sci-kit Learn, Kubernetes, Docker |
| Communication | English, Hindi (fluent speaker) |

TECHNICAL EXPERIENCE

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| Data Scientist / Maximo Application Suite | Feb 2020 — Present |
| IBM | Austin, Texas |

- Analyzed near real-time time-series data and designed **unsupervised learning** solutions to perform descriptive **anomaly detection** to meet client needs.
- Created proof-of-concept **neural-network** models for a potential client project to **forecast** energy demands using **tensorflow**.
- Created **supervised learning** models to aid decision making process of material ordering tool and utilized **explainability** tools to understand and build client trust in the model.
- Developed backend APIs using **Flask** framework, and maintained and deployed containerized services on **Kubernetes**.

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| Extreme Blue Data Scientist Intern / IBM Cloud and Storage Systems Support | May 2019 — Aug 2019 |
| IBM | Durham, North Carolina |

- Implemented and deployed **supervised machine learning** model to proactively predict negative outcomes for server systems.
- Executed exploratory data analysis using **ELK stack** and **python** to understand and clean the data.
- Participated in pitching project progress to IBM Executives on a weekly basis to get feedback and generate interest in the project.

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| Verification Engineer / Power 9 Processor Development | June 2015 — July 2018 |
| IBM | Austin, Texas |

- Performed functional unit verification for OpenCAPI data link unit in Power9 processor and for memory controller unit in Power9 and Power9-Axone processors using **C++/RTX**.

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| Research Assistant Intern/ ESE REU | May 2014 — August 2014 |
| REU 2014 | University of Alabama, Alabama |

- Research Project: Evaluating the contribution of a code reviewer's attribute in determining the effectiveness of a review.
- Built and labeled a structured data set of several review requests and reviewers using **SQL**. Utilized Amazon's Mechanical Turk as a crowd-sourcing platform as an experimental approach to generating labeled data set. Used the data set to calculate different characteristics of reviewers.
- Used **SPSS** to construct **decision trees** to analyze and rate the effects of reviewer characteristics on the effectiveness of a review.

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| Research Assistant Intern/ Amalthea REU | May 2013 — August 2013 |
| REU 2013 | Florida Institute of Technology, Florida |

- Research Project: Mixture Distribution Modeling on the Tangent Space of Hyper-Spherical Reproducing Kernel Hilbert Space.
- Generated kernel transformations to map data set to Hilbert spaces to obtain a distribution suitable for machine learning tasks.
- Investigated the outcome of transformation in clustering and classifying tasks by comparing classification results to 1-Nearest Neighbor, Naïve Bayes, and Quadratic Discriminant Analysis classifiers, and clustering results to hyper-spherical clustering.

EDUCATION

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| Master of Science in Computer Science (Machine Learning), Georgia Institute of Technology | Dec 2019 |
| Bachelor of Science in Electrical and Computer Engineering, University of Texas at Austin | May 2015 |

ACTIVITIES

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| Penguins at IBM Employee Resource Group, Mascot and Co-Chair | 2015 – Present |
| WiDS Datathon 2021, Participant and Team Lead | 2021 |
| Experience IBM Cloud with TJBOT, Participant | 2018 |
| UTCS Anniversary, IBM Representative | 2016 |
| Intro to Electrical Engineering, Teaching Assistant and Tutor | 2013 – 2015 |
| Introduce a Girl to Engineering Day, Volunteer | 2013 |