(713) 575-4714 Austin, Texas shraddhas@utexas.edu

Shraddha Singh

Data Scientist

github.com/singhshraddha linkedin.com/in/shraddhasingh1

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

Tools and Languages Communication

Python, Git, PyCharm, Jupyter, Tensorflow/Keras, Kubernetes, Docker, Pytorch, Visual Studio Code English, Hindi (fluent speaker)

TECHNICAL EXPERIENCE

Data Scientist / IBM Sustainability Software IBM

Feb 2020 — Present

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.
- · Adapted foundation models on outage prediction and weather forecasting tasks using pytorch and cloud computing resources
- Developed backend APIs using Flask framework, and maintained and deployed containerized services on Kubernetes.

Extreme Blue Data Scientist Intern / IBM Cloud and Storage Systems Support IBM

May 2019 — Aug 2019

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.

Verification Engineer / Power 9 Processor Development *IBM*

June 2015 - July 2018

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.

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.

Research Assistant Intern/ Amalthea REU

May 2013 — August 2013

REU 2013

Florida Institute of Technology, Florida

- Reserach 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

Master of Science in Computer Science (Machine Learning), Georgia Institute of TechnologyDec 2019Bachelor of Science in Electrical and Computer Engineering, University of Texas at AustinMay 2015

ACTIVITIES

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 Annivarsary, IBM Prepresentative	2016
Intro to Electrical Engineering, Teaching Assistant and Tutor	2013 – 2015
Introduce a Girl to Engineering Day, Volunteer	2013