

Shraddha Singh

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Education

Georgia Institute of Technology
MASTER OF SCIENCE IN COMPUTER
SCIENCE
Machine Learning
Dec 2019
GPA: 3.85/4.00

University of Texas at Austin
BACHELOR OF SCIENCE IN
ELECTRICAL AND COMPUTER
ENGINEERING
May 2015
GPA: 3.71/4.00

Links

Github:// [singhshraddha](#)
LinkedIn:// [shraddhasingh1](#)

Volunteering

Introduce a Girl to Engineering Day
| 2013
Demonstrated and monitored
hands-on STEM experiments

UTCS Anniversary | 2016
Communicated with UT Austin
students and answered questions
about day to day at work

Penguins at IBM | 2018
Represented Business Resource
Groups within IBM and educated
potential IBM interns about BRGs

Programs Participated

**Intel Ultimate Engineering
Experience** | PARTICIPANT, 2012
• Hands-on experience on
small-scale engineering projects
• Built a quadro-copter controlled
by raspberry pi
• Developed a video game in **C#**
• Brainstormed and proposed a
mock solution for non tangling
headphones
Experience IBM Cloud with TJ Bot |
PARTICIPANT, 2018
• Collaborated to create speech
translator, and a conversation
application in **NodeRed**
• Used Speech-to-text, image
classification, and text-to-speech
modules provided as part of the
challenge

Work Experience

IBM
DATA SCIENTIST DEVELOPER, 2020-PRESENT
• Developer for Maximo Monitor in Maximo Asset Application Suite
• Used **python** for developing backend APIs and integrating anomaly detection
modules for time-series data
• Investigated anomaly detection techniques and models using customer data
• Maintained and deployed services on **Kubernetes**

EXTREME BLUE DATA SCIENCE INTERN, 2019
• Found data patterns and correlation for servers' proactive data
• Used **ELK stack** and **python** for data visualization and for drawing statistical
inferences about the quality of data
• Applied supervised machine learning models to predict negative outcomes for
server systems using the tools available within Watson Studio
• Pitched the project to IBM Executives on a weekly basis

VERIFICATION ENGINEER, 2015-2018
• Implemented 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 Experience

University of Alabama | RESEARCH ASSISTANT, ESE REU 2014
Project: Evaluating the contribution of a code reviewer's attribute in
determining the effectiveness of a review
• Built a dataset of effective review requests and reviewers to calculate
different characteristics of effective reviewers
• Used IBM's **SPSS** toolkit to construct **decision trees** in order to analyze and
rate the effects of these characteristics
• Worked with Amazon's Mechanical Turk in the initial stages of dataset
development and used **SQL** to query open-course code sources

Florida Institute of Technology | RESEARCH ASSISTANT, AMALTHEA REU 2013
Project: Mixture Distribution Modeling on the Tangent Space of
Hyper-Spherical Reproducing Kernel Hilbert Space
• Mapped dataset in a Hilbert space, using kernel transformations, to obtain a
distribution suitable for machine learning tasks
• The goal was to improve accuracy in clustering and classifying data
• Compared classification results to 1-Nearest Neighbor, Naïve Bayes, and
Quadratic Discriminant Analysis classifiers, and clustering results to
hyper-spherical clustering in **Matlab**

Other Experience

Team project | STUDENT DEVELOPER, 2019
• Developed a solution to help track and recommend a healthy diet
• Created the backend using the **Django** framework and **sqlite3** database
• Implemented **K-means** to recommend food items lacking in a user's diet

Team project | STUDENT DEVELOPER, 2019
• Used transfer-learning framework on pre-trained **Cov-Nets** to assess the
quality of food photographs and promote better quality images
• Labeled a subset dataset provided by Yelp for the classification problem

UT Austin | UNDERGRADUATE TEACHING ASSISTANT FOR INTRO TO
ELECTRICAL ENGINEERING, 2013-2015
• Mentored freshmen students in ECE coursework and career