

# SHRIJA MISHRA

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Atlanta, Georgia

## EDUCATION

**GEORGIA INSTITUTE OF TECHNOLOGY** *Atlanta, Georgia*

MSCS, Machine Learning

Fall 2019- Present, GPA: 4/4

**NATIONAL INSTITUTE OF TECHNOLOGY** *Durgapur, India*

B.Tech. Computer Science and Engineering, May 2017

GPA: 9.5/10, **Gold Medalist**

## AWARDS

**Team Excellence**, Sales and Marketing Data Platform for building a system with 5x efficiency for Microsoft Business

**DigiPrint**, 2<sup>nd</sup> place among Microsoft Campus Hires 2017.

## MENTOR

**INTERVIEWBIT ACADEMY**

Helping Students prepare for jobs in tech by conducting mock interviews.

## INSTRUCTOR

**RECURSION**

Codechef Chapter, NIT Durgapur

**Trained 200 sophomores for algorithmic and competitive coding**

## PROBLEM SETTER

**Codechef | Hackerrank**

Competitive and Project Euler based public coding contests.

## SKILLS

PyTorch, Keras, OpenCV, OpenAI, Microsoft Azure, PowerShell  
C/C++, C#, Python, Scala, SparkSQL  
HTML, CSS, Django, Unity

## PROFESSIONAL EXPERIENCE

Software Development Engineer \_\_\_\_\_

**MICROSOFT**, India / June 2017 – July 2019

Integral role in designing and developing an **intelligent data platform which handles ingestion, compute and publish** of sales and marketing data across Microsoft. Thus, running a successful business in an effortless manner.

- Integrated and automated the deployment of the entire ETL pipeline using Azure Databricks, Data Factory and .Net for the ingestion and publish framework that enabled a dynamic and seamless consumer experience in onboarding terabytes of data. Onboarding **performance was improved 5x**.
- Implemented a system that aggregates marketing profile and activity data of prospective customers with the help of **Azure DataBricks**, enabling Microsoft's marketers **target the right consumer at the right time**.
- End to end ownership of user stories, Development, Testing, Security and CI/CD.
- Designed a system for **implementing GDPR guidelines** across the Data Platform.
- Built a system that generates Microsoft Dynamics CRM insights using **Scala and Spark** enabling easy analysis for all Microsoft sellers and marketers leading to a **10x improvement in efficiency**, almost real time.
- Built a **HoloLens accessibility application** for people affected with motor diseases.
- Active participant in **Quantum Computing Study Group** at Microsoft India Garage.

Software Development Intern \_\_\_\_\_

**MICROSOFT**, India / May 2016 – June 2016

- Optimized a Commerce BI job to **improve its efficiency by 3x** and enabling smoother and faster business analytics.
- Built a **system to predict re-enrollment of Microsoft Partners** in the target competency for the Microsoft Partners' Network program using Azure ML and scikit learn, yielding encouraging **accuracy of 80%**.

Research Intern \_\_\_\_\_

**INDIAN INSTITUTE OF TECHNOLOGY** Kharagpur, India / May 2015 – July 2015

- Implemented a user authentication system with the help of Line Attribute-Based Feature Vectors of fingerprint images using various matching algorithms involving minutiae points and line attributes joining them. This led to a publication on **Cryptographic Key Generation using Biometric at ICCII**.

## PROJECTS

**PROJECT TESSERAE**, IARPA | SocWEB Lab, Georgia Tech

Utilizing multimodal data streams with social media to predict and characterize various attributes of physical and mental well-being of individuals, with the help of various natural language processing, machine learning and statistical modelling techniques.

## PUBLICATION

**EMOTION RECOGNITION THROUGH FACIAL GESTURES**

Proposed and implemented a novel Convolutional Neural Network architecture to identify different emotions and their intensity level in a human face utilizing deep learning techniques.

- Published in International Conference on Mining Intelligence and Knowledge Exploration (**MIKE** 2017).
- Part of Lecture Notes in Computer Science Book Series (**LNCS**, Volume 10682)

## COURSES

Machine Learning, Graduate Algorithms, Reinforcement Learning, Machine Learning for Trading, Computational Photography, Pattern Recognition, AI  
Compiler Design, Database Systems, Operating Systems, Computer Networks