

# ISHIKA PRASAD

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## OBJECTIVE

Looking for Full-time opportunities in Software Engineering/Data Science/Machine Learning.

## EDUCATION

### **Rochester Institute of Technology**

Rochester, NY

*Master of Science in Computer Science; Degree GPA: 3.7*

*Aug. 2018 – (Expected) Dec. 2020*

- **Coursework** (Major: Data Management & Artificial Intelligence):

- Foundations of Algorithms, Introduction to Big Data, Foundation of Intelligent Systems, Big Data Analytics, Foundations of Computer Vision, Topics in Intelligent Systems, Data Warehousing, Neural Net & Machine Learning, Data Security and Privacy

### **Visvesvaraya Technological University**

Bangalore, India

*Bachelor of Engineering in Computer Science; First Class with Distinction*

*Sep. 2011 - Jun. 2015*

## TECHNICAL SKILLS

- **Languages** – Python, R, Java, SQL, SAS, HTML, CSS, JavaScript
- **Frameworks & Tools** – Jupyter Notebook, MATLAB, MySQL, Tableau, Pentaho Data Integration(Kettle), Flask, AWS, Spring Boot, Git, Apache Maven, Jenkins
- **ML Libraries** – TensorFlow, Keras, PyTorch, SciPy, OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

## PROFESSIONAL EXPERIENCE

### **Software Engineer Intern**

**Fairport, USA**

*Tracelink Inc.*

*May 2019 - Aug. 2019*

- Enhanced backend of Inventory tracking system using Java, Microservices, REST API, AWS, Jenkins.
- Built modules of Android application to scan barcode on Java, Jenkins
- Technologies used: Microservices, Java, AWS, Jenkins, REST API, Android, Shell Script, Unix, Git, MVP

### **Graduate Research Assistant**

**Rochester, USA**

*Rochester Institute of Technology*

*Nov. 2018 - Apr. 2019*

- Researched on JAAS & Java RMI projects to develop a predictive security algorithm.
- Technologies used: JAAS (Java Authentication and Authorization Service), Java RMI, Gradle, Maven, Java.

### **Senior Software Engineer**

**Bangalore, India**

*Mindtree (Symantec)*

*Oct. 2015 - Jun. 2018*

- Developed production level monitoring and debugging of services through automation in Java and Shell Script.
- Optimized and automated major modules like Scan, Report, Notification using Java, SQL with optimal performance for Complete Website Security (CWS).
- Technologies used: Java, Python, Spring Boot, MySQL, Apache Tomcat, Shell Script, Unix, JavaScript, HTML, CSS

## PROJECTS

- **IMDb Query Web App:** Designed SQL database for IMDb dataset and performed data cleaning, indexing, ER modeling. Developed a web app that allows to execute query and display the response of query related to the database.
- **Data Mining on Online Retail:** Implemented Data Mining (Preprocessing, Feature selection, Exploration and Visualization) using classification, clustering, association rule on Online Retail UCI Machine Learning dataset.
- **Online Food Ordering System:** Created a web app for online food ordering with the implementation of security issues such as authentication, reCAPTCHA, access control, data masking, data anonymization, using AWS, MySQL, and Flask.
- **Descriptive Analysis of Suicide Ideation on Twitter:** Performed descriptive analysis on active twitter users to analyze status of their mental health and suicidal thoughts using the approach of word cloud, K-means, Agglomerative clustering.
- **Emotion Detection in Video Sequence:** Created an AI system using RAVDESS dataset to detect six emotions in video sequence using Principal Component Analysis (PCA), K-Nearest Neighbors (KNN), and Hidden Markov Model (HMM).
- **Intracranial Hemorrhage Detection and Segmentation:** Created two AI models using RSNA and PhysioNet CT images to detect and segment intracranial hemorrhage and its six subtypes using EfficientNet and UNet.