# NIKHIL YADAV

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## WEBSITES

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## EDUCATION

**Rochester Institute of Technology** - Rochester, NY, United States *August 2018 - Present*
**Masters**: Computer Science

**Rizvi College of Engineering, University of Mumbai** - Mumbai, MH, India *June 2012 - June 2016*
**Bachelor of Engineering**: Computer Engineering

## CERTIFICATIONS

- AWS Certified Solution Architect - Associate Level
- Machine learning Engineer NanoDegree from Udacity

## EXPERIENCE

**Machine Learning Engineer - Tekolutions.ai, Mumbai, India** *Feb 2017 - June 2018*

- Trained and developed the R-net, DrQA, model on the Stanford question answering dataset.
- Developed presentations on time series analysis using deep learning and ARIMA. Performed a comparative analysis using different performance metrics of top models on the SQuAD dataset.
- Performed regression analysis and applied ML techniques to proprietary Ayurvedic dataset to gain insights.
- Technology stack: Python, Git, Keras, PyTorch, Deep Learning, NLU

## SKILLS

**- Java, Python, AWS, MYSQL/SQL, JavaScript, React.js, Node.js, Express.js HTML5, CSS, Gradle, Git, REST, Postman, Machine Learning, Heroku, MongoDB**

## PROJECTS

**1. IMDB dataset Loading And Analysis**

- Extracted and loaded IMDB dataset using JDBC driver for MySQL in accordance with a schema, imported the SQL data to build MongoDB collections using Mongo Java driver.
- Performed candidate key discovery, canonical cover search and 3NF Normalization
- Performed association mining using Apriori Algorithm and clustering using K-Means, on collections stored in MongoDB to find underlying relations within the dataset.
- Technology stack: Java, MySQL, JDBC, Mongo-Java Driver, MongoDB, Gradle, Groovy

**2. Blog and Portfolio Web Application**

- Developing a web application for blogging and sharing my academic and personal projects.
- Used Node.js and Express.js for back end with MongoDB and Mongoose database and JavaScript on frontend. Used Heroku to deploy the application to AWS Cloud using MongoDB Atlas for database.
- Used Google OAuth 2.0 for authentication.
- Technology stack: JavaScript, Node.js, Express.js, Bootstrap MongoDB, HTML, CSS, Heroku, EJS

**3. Toxic Comment Classification Challenge**

- Created a bidirectional GRU model using keras to classify toxic comments into their respective classes.
- Preprocessed and analyzed a huge dataset of comments, applied NLP techniques to preprocess the data.
- Achieved a ROC AUC score of 0.9827, which featured in top 28%.
- Technology stack: Python, Keras, Matplotlib, Pandas, Numpy, Scikit-Learn

**4. BattleShip Game Development using RMI/Client-Server Architecture**

- Designed and developed battleship game to be played between two players using Remote Method Invocation (RMI), Object-oriented Design Paradigm and Client-Server Architecture.
- Utilized Java and Socket Programming to create a tunnel between sever and client using stubs and skeleton.
- Technology stack: Java, RMI, Socket Programming