HIRAL NAGDA

848-391-3091| hiralnagda96@gmail.com |Greater NYC Area
https://github.com/hiralnagda/ | https://www.linkedin.com/in/hiral-nagda/

SUMMARY

Entry level Software Engineer / Data Science / Machine Learning Engineer / Full-Stack Web / DevOps / SRE. Self-motivated, problem solver, strong organizational skills, reliable, capable of learning new technical skills quickly. Able to work under tight deadlines and rapidly changing requirements and priorities. Work well with a team as well as independently with little or no supervision.

EDUCATION

Rutgers University, New Brunswick, NJ — August 2018 – May 2020
Master of Science in **Computer Science**, Track: **Machine Learning** — **GPA : 3.833/4**
Relevant Coursework: Data Structures and Algorithms, Introduction to Artificial Intelligence, Massive Data Mining, Pattern Recognition.

University of Mumbai, Mumbai, India — August 2014 – June 2018
Bachelor of Engineering in **Computer Engineering** — **GPA : 8.53/10**
Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Soft Computing, Discrete Math, Applied Math, Theoretical Computer Science, Machine Learning, Operating Systems, Parallel and Distributed Systems, Object Oriented Programming, Database Management System.

SOFTWARE SKILLS

Familiar | Python, C, C++, Java, HTML, CSS, JavaScript
Basic | Keras, MySQL, TensorFlow, Unity, scikit-learn, Azure ML Studio, Node.js, MongoDB, Hadoop, jQuery, AJAX, Flask, Shell, Ansible Tower
Operating Systems | Linux, Windows
Certifications |Deep Learning Specialization by deeplearning.ai on Coursera (September 2018)
SAS Certified Visual Business Analyst (June 2018)
Introduction to Python for Data Science, University of Michigan on Coursera (August 2017-October2017)

PROFESSIONAL EXPERIENCE

ADP LLC, Roseland, New Jersey — **May 2019 – August 2019**
DevOps/SRE Intern

- Created a central – system reliability dashboard – that integrates all health check reports, self-serve utilities and automation frameworks using Python, HTML/CSS, JavaScript frameworks and shell.
- Developed automation using Python & Flask API for Kafka topic management and identifying lags.
- Designed and developed automated reports to extract and analyze data from CA Service Desk and CMDB using HTML/CSS, Python, JavaScript, SOAP APIs.

Godrej India Culture Lab, Mumbai — **January 2017 – March 2017**
Web Development Extern

- Designed and developed 'Mumbai's Culture Map' which is documentation of cultural spaces in an interactive manner that allows users to reach out to and obtain a catalog of the various cultural institutions in the city.
- Deployed Google Maps Layers, provisions were added that allowed users to search for spaces by categories.
- Technologies used: HTML, CSS, JavaScript, Bootstrap, Google Map Layers.

TECHNICAL PROJECTS

Movie Recommendation System (Data Mining) — **April 2019**

- Implemented movie recommendation system using K-Nearest-Neighbor, Matrix-Factorization and Slope-one algorithm on Movielens dataset using Surprise library. Evaluated predictions by calculating the MAE and RMSE.
- Created a recommendation list (top 10 items) for each user for items that the user didn't purchase before. Evaluated quality of the recommendation list using Precision, Recall and F-measure.

Colorizer (Artificial Intelligence) — **December 2018**

- Developed a model which converts grayscale images to color images. Used 3 × 3-pixel window of gray values and mapped this set of nine gray values to a single (r, g, b) color vector. Designed a 5-layer Artificial Neural Network architecture using Keras.

Mazerunner (Artificial Intelligence) — **September 2018**

- Deployed an Intelligent System to solve randomly generated maze using BFS, DFS, and A* algorithm.
- Implemented Genetic Algorithm to build hard-to-solve mazes.

Object Detection System (Deep Learning) — **March 2018 – April 2018**

- Classification and localization of 80 classes of objects using deep learning algorithm YOLOv2.
- Filtered threshold on class scores and second filter Non-Max Suppression. Used deep CNN of the 19x19x5x85 dimensional encoding.

ExpressCart (Web Development) — **May 2018**

- Built Node.js, Express shopping cart app using Stripe API and Mongo DB.
- Added features which allowed to create a new customer, login and validate customer. Authentic users could add items in shopping cart. The orders were stored in MongoDB. Payment was handled using Stripe API.

Insurance Policy Prediction (Data Mining) — **July 2017 – April 2018**

- Used Recursive Feature Elimination method using logistic regression model to find best features.
- Formed K-means clusters using different attributes for analysis. Deployed Decision Tree (89% accuracy) and Random Forest (89.125% accuracy) models for training of the model.
- Performed K-fold cross validation and hyper parameter tuning to choose the best model.

E-Library Management System (Android Studio) — **August 2016 – December 2016**

- Developed an application using live database of computer department library.
- Application provided features for students to check for availability of a book and consequently request for the same.
- Technologies used: REST API, Volley Library, Android Studio, PHP, MySQL, Java, XML.

CO-CURRICULAR AND EXTRA CURRICULAR ACTIVITIES

- *Mentor*, **Rutgers Women in Computer Science Student Chapter** (Present)
- *Accommodation Assistant,* **Rutgers Access and Disability Resources** (Present): Convert handwritten notes into Accessible Math; Works with a blind student to assist with study material.