

MRINAL JAIN

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EXPERIENCE

Data Science Intern @

[Noodle.ai](https://noodle.ai)

Duration: 5 weeks (Jun, 2017 – Jul 2017)

Developed a tool (a python package) called '[gydelt](#)' that can be used to access and pre-process the data from the [Global Database of Events, Language and Tone \(GDELT\)](#).

CERTIFICATIONS

Machine Learning Engineer

Nanodegree, Udacity

[\(View on GitHub\)](#)

Graduation: Jan, 2018

(Expected)

EDUCATION

Bachelor of Technology

Vellore Institute of Technology

Vellore, Tamil Nadu, India

Branch: Information

Technology (IT)

CGPA: 9.3

Graduation: May, 2019

(Expected)

Senior Secondary (12th

Standard)

Modern School, Barakhamba

Road, New Delhi, India

Result: 93.2% (CBSE Board)

Graduated: 2015

LANGUAGES

English – Native

Hindi – Native

French – Elementary

Proficiency

HOBBIES

Music – Indian Classical Vocal

Martial Arts – Brown Belt

Badminton and Athletics.

PROJECTS ([View GitHub Profile](#))

❖ **Created a Dog Breed Classifier using Deep Learning** ([View](#))

Built an algorithm to identify canine breed given an image of a dog. If given image of a human, the algorithm identifies a resembling dog breed. Implemented techniques such as Deep Convolutional Neural Networks and Transfer Learning.

- *Got an accuracy of ~80% in correctly classifying dogs into their respective breeds.*

❖ **Trained a Smart-cab (simulation) to drive using Reinforcement Learning** ([View](#))

Applied reinforcement learning to build a simulated vehicle navigation agent. This project involved modelling a complex control problem in terms of limited available inputs, and designing a scheme to automatically learn an optimal driving strategy based on rewards and penalties.

- *The smart-cab was able to reach its destinations on time for at least 90% of the trips, without committing any traffic violations (within the simulation).*

❖ **Created customer segments for a wholesale distributor using Unsupervised Learning** ([View](#))

Analysed a dataset containing data on various customers' annual spending amounts (reported in *monetary units*) of diverse product categories for internal structure. Discovered the variation in the different types of customers that a wholesale distributor interacts with, so as to equip the distributor with insight into how to best structure their delivery service to meet the needs of each customer.

❖ **Academic Portal**

Created a model of the academic portal of our college and implemented some of the core functionalities such as – *Login and Sign-up (of Students and Faculty), Course Registration, Attendance and Assignment Submission*. **Frontend: Java; Backend: PostgreSQL**

TECHNICAL SKILLS

- ✓ Programming in Python, C++ and Java
- ✓ Strong base of Data Structures and Algorithms
- ✓ Data Analysis and Machine Learning in Python (using libraries like – Pandas, Numpy, Scikit-learn, Keras, OpenCV)
- ✓ Web Development (HTML, CSS and JavaScript)
- ✓ Database Management Systems (Relational: SQL, Non-relational: MongoDB)

PERSONAL SKILLS

- ✓ Excellent coding skills
- ✓ Good analytical and logical thinking
- ✓ Good problem-solving ability
- ✓ More focus on the approach to solve a problem, rather than just giving a solution.
- ✓ Quick learner and good grasping ability
- ✓ Passionate about work
- ✓ Good communication skills
- ✓ Attentive and versatile