

Shashwat Bhardwaj

STUDENT | Computer Science and Engineering
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Summary

Chiefly interested in Machine-Learning and Deep Learning

Multi-disciplinary engineer with a keen interest in the use of upcoming technologies in high-tech challenges. Skilled and experienced in **Machine learning**, **Deep Learning** with frameworks like **Tensorflow**, **Keras**, **Natural Language Processing** and **Reinforcement Learning**. An engineer with a wide range of technical skills and a high-level perspective of complex systems. Passionate about technology and looking for opportunities in Machine/Deep Learning.

Work Experience

Coding Ninjas

New Delhi, India

Teaching Assistant – JAVA NUCLEUS BATCH: Data Structures and Algorithms

Sept. 2018 – Jan. 2019

My responsibilities as a teaching assistant was to clear my students' doubts and help them in writing error-free and robust codes. It also included suggesting better approach towards solutions by implementing **time** and **space** optimizations.

Projects

Web-Development

To-Do List: An app to organize appointments based on priorities, deadlines, tags and set reminders accordingly. Allows users to add descriptions as well as comments for each appointments. Can be managed offline and displays different views for different orientations.

<https://github.com/raja17021998/to-do-list>

Burger Builder Application: It is a react application named Burger builder, in which the user can build the burger ingredient by ingredient adding and removing ingredients, and a checkout panel. The whole application is built using React and state management is done through Redux

<https://github.com/raja17021998/burger-builder-react-application>

Elena: It is a catalogue website that features different jewelries based upon its category built on node.js. This project is under development phase now.

<https://github.com/raja17021998/elena-rails>

Machine-Learning and Deep Learning

Air Quality Prediction: In this project we did predict air quality from given dataset and used various algorithms like multivariate linear regression, polynomial regression, support vector regression etc. and compared various results, in which we found out Polynomial Regression to yield best accuracy.

MNIST Hand Digit Recognition: In this we did undergo a project in which we did handwritten digit recognition using KNN, Naïve Bayes, SVM, CNN and found CNN to yield the best results.

Text Generation using Markov Chains: In this, we performed text generation using markov chains.

Movie Rating Prediction: In this project, we did predict the movie ratings using Naïve Bayes and Natural Language Processing.

Emoji Predictor: In this project we built an emoji predictor using Recurrent Neural Networks.

Alpha-Zero: It was a project built in an online series of webinars by Coding Blocks, and is a simulation of alpha-zero game played by AI through reinforcement learning.

<https://github.com/raja17021998/coding-blocks-machine-learning>

Image Segmentation: In this project we used KMeans to implement image segmentation.

Currently I am undergoing several projects featuring **RNNs**, **CNNs**, **Auto Encoders**, **Boltzmann machines** and **NLTK** etc. and a **research paper** featuring **Bio-inspired algorithms** and **Spiking Neural Networks** is also in the pipeline. I am also currently working on training a **Deep Q Learner** to create a DQN for a mountain car.

Education

BE. Computer Science and Engineering

MAHARAJA AGRASEN INSTITUTE OF TECHNOLOGY

New Delhi, India

Aug. 2016 - Present

Training Courses

Coding Ninjas — Nucleus Java with Data Structures Training

New Delhi, India

Aug. 18 – Nov. 18

Strong Hands and experience on **Data structure, Algorithms** using Java as a programming language (Duration: **3 Months**)

Coding Ninjas — Alchemy: Full Stack Web Development

New Delhi, India

Jan. 18 – Apr. 18

Applying **JavaScript, CSS3 & SCSS** on **HTML5, Bootstrap, Font-Awesome, jQuery, Animate.css** for frontend and **Ruby on Rails** as backend using **SQLite** or **PostgreSQL** as Database. Frontend Web development using **React** and state management through **Redux** and libraries like **axios** etc. and a head start with **Angular 7**. (Duration: **3 months**)

Coding Blocks — Machine Learning and Deep Learning

New Delhi, India

Sep. 2018 – Feb. 2018

Learning and applying various Machine and Deep Learning techniques like regression, classification and training deep neural networks on several datasets to extract meaningful insights from data. (Duration: **3 months**)

Skills

Programming Java, Python, JavaScript, C++, R

Web Frameworks Ruby on Rails, Django, Node.js

JS Frameworks React and Redux, Angular-7

Tools/Libraries Sklearn, Tensor Flow, Keras, Numpy, Matplotlib, Pandas, OpenCV, NLTK, H2O

Activities & Achievements

- LFT Core member mentor leading a team of 15 volunteers mentoring events like mass-cleanathon, blood donation camps etc.
- LFT Campaign Manager leading two teams of 2 cores each of two colleges with 15 members each, mentoring events like mass-cleanathon, blood donation camps etc.
- A Core Member of the **R&D Department** of MAIT.
- **Overall Batch Rank-2** at Coding Ninjas
- **Member of Google Developer Groups New Delhi**, which is a tech community across Delhi-NCR organizing several tech talks and events
- **Member of Google Cloud Developer Platform New Delhi**, which is a tech community across Delhi-NCR organizing several tech talks and events
- **Machine Learning Mentor** mentoring 2 students at **Developer Facebook Circles**, Delhi-NCR which is a tech community mentoring students on currently trending topics in the market and also organizing several tech talks and events across Delhi-NCR.
- Among **4%** students in **JEE 2017**
- **Participated** in various hackathons

Extra Courses

- Coursera **Machine Learning** by **Andrew Ng**
- **5 course** specialization in Deep Learning on **deeplearning.ai**
- Coursera **Tensorflow** specialization
- Machine Learning in **Python & R** by Kirill
- **React** by Maxmillian