

# M Badri NARAYANAN

## Machine Learning | Deep Learning | Natural Language Processing | Computer Vision | Data Science

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### SUMMARY

I am currently pursuing my bachelors in Information Technology from SSN College of Engineering, Chennai. I am interested in the fields of Machine Learning, Deep Learning, Natural Language Processing, Computer Vision and Data Science. I would like to work in the aforementioned fields and develop real world solutions.

### EDUCATION

**SSN College of Engineering, Chennai** August 2018 - Present  
Bachelor of Technology, Information Technology *Current GPA : 8.60(Semester IV)*

**Vidya Mandir Senior Secondary School, Chennai** 2017 - 2018  
12<sup>th</sup> Standard *94.4%*

**Vidya Mandir Senior Secondary School, Chennai** 2015 - 2016  
10<sup>th</sup> Standard *8.8 CGPA*

### EXPERIENCE

**Present**  
**April 2020** | **Undergraduate Research Assistant, SOLARILLION FOUNDATION, Chennai**  
    > Research on sign language translation  
    > Supervisor : Mr. Vineeth Vijayaraghavan

**Present**  
**October 2020** | **Freelance Projects, FREELANCER.COM, Chennai**  
    > Undertook projects via Freelancer.com. [FreeLancer.com Profile](#)  
    > Classification of ICD Code using state of art Transformer Model.  
    > Arabic Tweet Rumor Detection using LSTMs.  
    > Malware Detection using Artificial Neural Networks.

**September 2020**  
**August 2020** | **ML / AI Intern, APPCILIUS PVT LTD, Bangalore**  
    > Data preprocessing, data cleaning.  
    > Developed a chat bot using modern NLP architectures and techniques.  
    > Feature extraction and feature comparison using SIFT and OpenCV.  
    > Supervisor : Mr. Arpan Deb

**August 2020**  
**June 2020** | **Summer Intern, PRODIAN INFOTECH PVT LTD, Chennai**  
    > Data preprocessing, data cleaning of cricket match data and feature analysis.  
    > Applying Unsupervised ML Algorithms to get the top 5 features that affect a cricket match.  
    > Supervisor : Mr. Vijay Karthik

### SKILLS

<b>Programming Languages</b>	Python, C, C++, R, GNU Octave, MASM, $\text{\LaTeX}$
<b>Web Development</b>	HTML5, CSS3, JavaScript
<b>Frameworks</b>	Git, TensorFlow, Keras, PyTorch, scikit, NLTK, spaCy, OpenCV
<b>DataBase Systems</b>	MySQL
<b>Integrated Development Environment</b>	Code Blocks
<b>Platforms</b>	Linux, Windows

### CLICKBAIT CLASSIFICATION

COMPLETED - 2020

[Clickbait Classification Source Code](#)

Classifying clickbaits using modern NLP techniques and architectures.

[Numpy](#) [Pandas](#) [Word Embeddings](#) [NLTK](#) [spaCy](#) [Transformers](#) [Encoders](#)

### OBJECT DETECTION USING YOLO V3

COMPLETED - 2020

[Object Detection Using YOLO v3 Source Code](#)

Object detection using YOLO v3 Algorithm with custom dataset.

[Numpy](#) [Pandas](#) [OIDv4](#) [YOLOV3](#) [Darknet](#) [Deep Learning](#)

### MACHINE TRANSLATOR

COMPLETED - 2020

[Machine Translator Source Code](#)

English to French neural machine translator built using Transformer architecture in NLP.

[Numpy](#) [Pandas](#) [NLTK](#) [spaCy](#) [Transformers](#) [NLP](#)

### FLIGHT DELAY PREDICTION

COMPLETED - 2020

[Flight Delay Prediction Source Code](#)

This project aims to develop a two stage machine learning model to predict if flights will be delayed upon arrival and if so, the delay in minutes.

[Machine-Learning](#) [Numpy](#) [Pandas](#) [Scikit-Learn](#) [Python](#)

### PORTFOLIO WEBSITE

COMPLETED - 2020

[Portfolio Website Source Code](#) [Portfolio Website](#)

Personal website created using HTML5,CSS3 and hosted using Github pages. Page currently live at <https://mbadrinarayanan.github.io>

[HTML5](#) [CSS3](#)

### HOTEL MANGEMENT SYSTEM

COMPLETED - 2019

[Hotel Management System Source Code](#)

This project aims to create a software to facilitate hotel room bookings and provide billing operations.

[C](#) [Structures](#) [File Handling](#)

### RAILWAY TICKET RESERVATION SYSTEM

COMPLETED - 2019

[Railway Ticket Reservation System Source Code](#)

This project aims to create a software to facilitate train ticket booking system using MySQL and Visual Basic Forms.

[SQL](#) [Visual Basic](#) [Forms](#)

### MOVIE TICKET RESERVATION SYSTEM

COMPLETED - 2018

[Movie Ticket Reservation System Source Code](#)

This projects aims to create a software to facilitate in movie ticket bookings.

[C++](#) [Graphics](#) [File Handling](#)

### OTHELLO

COMPLETED - 2018

[Othello Source Code](#)

This project aims to create a 2 player checkers game.

[C++](#) [Graphics](#) [File Handling](#)

### CORRECTION FACTOR FOR DEFECTIVE EYES

COMPLETED - 2018

[Correction Factor For Defective Eyes Source Code](#)

This project aims to determine the correction factor for defective eyes.

[C++](#) [Graphics](#)

### NUCLEAR FUSION REACTION IN THE SUN

COMPLETED - 2018

[Nuclear Fusion Source Code](#)

This project aims to illustrate the nuclear fusion reaction in the sun.

[C++](#) [Graphics](#)

## CERTIFICATIONS

- > **Natural Language Processing Specialization (4 Course Specialization)** : deeplearning.ai and Coursera.
- > **Tensorflow in Practice Specialization (4 Course Specialization)** : deeplearning.ai and Coursera.
- > **Deep Learning Specialization (5 Course Specialization)** : deeplearning.ai and Coursera.
- > **Machine Learning** : Stanford University and Coursera.
- > **Python for Data Science** : NPTEL India and IIT Madras.
- > **Modern Natural Language Processing In Python** : Created and taught by Martin Jorkeviell, Kirill Eremenko, Hadelin de Ponteves & SuperDataScience Team, offered via Udemy.
- > **Natural Language Processing (NLP) with Python : 2020** : Created and taught by Ankit Mistry, Vijay Gadhave, Data Science & Machine Learning Academy, offered via Udemy.
- > **NLP - Natural Language Processing with Python** : Created and taught by Jose Portilla, offered via Udemy.
- > **Natural Language Processing(NLP) with Deep Learning in Keras** : Created and taught by Carlos Quiros, offered via Udemy.
- > **Master Computer Vision™ OpenCV4 in Python with Deep Learning** : Created and taught by Rajeev D. Ratan, offered via Udemy.
- > **Training YOLO v3 for Objects Detection with Custom Data** : Created and taught by Valentyn Sichkar, offered via Udemy.
- > **Python for Computer Vision with OpenCV and Deep Learning** : Created and taught by Jose Portilla, offered via Udemy.
- > **R Programming A-Z™ : R For Data Science With Real Exercises!** : Created and taught by Kirill Eremenko & SuperDataScience Team, offered via Udemy.
- > **Complete Python Bootcamp : Go from zero to hero in Python 3** : Created and taught by Jose Portilla, offered via Udemy.
- > **Version Control with Git** : Atlassian and Coursera.
- > **Introduction to HTML5** : University of Michigan and Coursera.
- > **Introduction to CSS3** : University of Michigan and Coursera.
- > **Interactivity with JavaScript** : University of Michigan and Coursera.
- > **Advanced Styling with Responsive Design** : University of Michigan and Coursera.

## WORKSHOPS

- > **Workshop In Ethical Hacking** : Online Workshop conducted by MyCaptain
- > **Workshop In Artificial Intelligence** : Online conducted by MyCaptain

## EXTRA CURRICULAR

- > Volunteering with Chennai Volunteers to teach spoken English classes for Tamil medium students.
- > Captained the school cricket team.
- > Represented the college cricket team.

## AWARDS & HONOURS

- > Stood school 3rd in Chemistry in 12th standard.
- > Won the 2nd best project in Computer Science in 12th standard.

## LANGUAGES

English	●	●	●	●	●
Tamil	●	●	●	●	○
Sanskrit	●	●	●	●	○
Hindi	●	●	●	○	○