

BADRI NARAYANAN MURALI KRISHNAN

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EDUCATION

Sri Sivasubramaniya Nadar (SSN) College of Engineering, Chennai

Jun 2018 – Jun 2022

B.Tech. Information Technology

GPA: 8.88 (Sem VII)

Courses: Probability, Statistics, Discrete Mathematics, Data Structures, Machine Learning, Deep Learning

Roles: Head of the ML Division of PROCODE - official coding club of Department of IT, Class representative for four years.

Vidya Mandir Senior Secondary School, Chennai

Jun 2017 – Jun 2018

Grade 12, Computer Science Group

Grade: 94.4%

SKILLS

Programming Languages: Python, C, C++, \LaTeX

Frameworks: PyTorch, TensorFlow, Keras, Git, AWS

Libraries: NumPy, pandas, scikit-learn, NLTK, spaCy, OpenCV

PUBLICATIONS

End-to-End Speech Recognition of Tamil Language Paper Code

Intelligent Automation and Soft Computing Journal, 2022

Sign Language Translation using Multi Context Transformer Paper Code

20th Mexican International Conference on Artificial Intelligence (MICAI), Mexico City, 2021

Won the 3rd best paper award.

EXPERIENCE

Mad Street Den, Machine Learning Intern, Chennai, India

Mar 2021 – Present

→ Part of the NLP core group which developed a tool for document processing using an OCR engine, image processing, and NLP techniques to extract unstructured data and convert them to a structured format.

→ Built Computer Vision models to serve educational recommendations.

Advisor: Mr. Anand Chandrasekharan

Solarillion Foundation, UG RA and TA (Part Time), Chennai, India Website

Feb 2020 – Present

→ Lead the team which worked on Sign Language Translation which won the 3rd best paper award at the 20th Mexican International Conference on Artificial Intelligence (MICAI), Mexico City, 2021.

→ Evaluated assignments and projects, Guided 10 students in Python, ML, DL and research phase.

→ Lead the website development team and was part of server management team.

→ Wrote bots for posting office hours and creating polls.

Advisor: Mr. Vineeth Vijayaraghavan

Freelance Projects [Freelancer Profile](#)

Oct 2020 – Feb 2021

→ Undertook projects in Natural Language Processing and Computer Vision.

→ Built an NLP model to determine the ICD code diagnosis given a doctor's medical report.

Prodiان Info Tech Pvt Ltd, Summer Intern, Chennai, India

Jun 2020 – Aug 2020

→ Applied unsupervised ML Algorithms to explore different patterns that affect a cricket match.

Advisor: Mr. Vijay Karthik

SELECTED PROJECTS

Fake News Detection Code **In Progress**

Determining the integrity of a news source based on its title and its content using a novel NLP architecture.

ToS Classification Code **In Progress**

Identify unfair Terms of Service clauses using a two-stage DL algorithm with knowledge distillation using state-of-the-art architectures like BERT.

Clickbait Classification Code **2020**

Classifying clickbaits: articles with potentially misleading titles, using a state-of-the-art NLP architecture.

Object Detection Using YOLO v3 [Code](#) 2020

Detecting everyday objects using the YOLO v3 network with a custom dataset.

Flight Delay Prediction [Code](#) 2020

Two stage machine learning engine to predict arrival delay of flights in minutes.

Machine Translator [Code](#) 2020

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

Portfolio Website [Code](#) 2020

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

Hotel Mangement System [Code](#) 2019

Software to facilitate hotel room bookings and provide billing operations.

Railway Ticket Reservation System [Code](#) 2019

Software to facilitate train ticket booking system using MySQL and Visual Basic Forms.

SELECTED MOOC COURSES

Natural Language Processing Specialization (Set of 4 Courses) [Course Certificate](#) Oct 2020

Coursera and DeepLearning.AI

Master Computer Vision™ OpenCV4 in Python with Deep Learning [Course Certificate](#) Oct 2020

Udemy

Training YOLO v3 for Objects Detection with Custom Data [Course Certificate](#) July 2020

Udemy

TensorFlow Developer Specialization (Set of 4 Courses) [Course Certificate](#) Jun 2020

Coursera and DeepLearning.AI

Deep Learning Specialization (Set of 5 Courses) [Course Certificate](#) Jun 2020

Coursera and DeepLearning.AI

Natural Language Processing (NLP) with Python: 2020 [Course Certificate](#) Jun 2020

Udemy

Python for Computer Vision with OpenCV and Deep Learning [Course Certificate](#) Jun 2020

Udemy

Machine Learning [Course Certificate](#) May 2020

Coursera and Stanford University

VOLUNTEERING AND RESPONSIBILITIES

- Conducted classes in NLP and CV, evaluated ML, DL assignments and projects as part of PROCODE.
- Part of the tech team for SSN MUN 2021.
- Volunteering with Chennai Volunteers to teach spoken English classes.

AWARDS AND HONOURS

- Won the **3rd best paper** for “**Sign Language Translation using Multi Context Transformer**” at Mexican International Conference on Artificial Intelligence (MICAI), 2021.
- Lead my team to the top 550 in the RSNA-MICCAI Brain Tumor Radiogenomic Classification Kaggle competition from over 1500 participating teams.
- Part of the collegiate cricket team which won the Manipal Academy for Higher Education (MAHE) cricket tournament.
- Won the **2nd best project** for Computer Science in Grade 12.
- Captained the school cricket team.