

# 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: 8.92 (Sem VI)**

**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.

## SKILLS

**Programming Languages:** Python, C, C++, Java,  $\LaTeX$

**Frameworks & Libraries:** Git, AWS, TensorFlow, Keras, PyTorch, scikit-learn, NLTK, spaCy, OpenCV

**Web Development:** HTML5, CSS3, JavaScript

## PUBLICATIONS

**Sign Language Translation using Multi Context Transformer**  [Paper](#)  [Code](#)

20<sup>th</sup> Mexican International Conference on Artificial Intelligence (MICAI), Mexico City, 2021  
Won the 3rd best paper award.

**End-to-End Speech Recognition of Tamil Language**  [Paper](#)  [Code](#)

Intelligent Automation & Soft Computing Journal, 2021


## EXPERIENCE

**Mad Street Den, Machine Learning Intern, Chennai, India**

**Mar 2021 – Present**

- Part of the NLP core group, developing a text tagger to perform various tasks for fashion catalogs.
- Used an OCR engine & image processing techniques to extract vaccination information from vaccine cards.
- Built Computer Vision models to serve educational recommendations.

**Advisor:** Mr. Anand Chandrasekharan

**Solarillion Foundation, UG RA & TA (Part Time), Chennai, India**  [Website](#)

**Feb 2020 – Present**

- Lead the team which worked on Sign Language Translation.
- Evaluated assignments & projects, Guided 10 students in Python, ML, DL & 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 – February 2021**

- Undertook projects in Natural Language Processing & Computer Vision.
- Built an NLP model to determine the ICD code diagnosis given a doctor medical report.

**Prodian 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

**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.

## VOLUNTEERING & RESPONSIBILITIES

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

## AWARDS & 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.