

M BADRI NARAYANAN

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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](#)

20th 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

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.

Pro dian 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 using modern NLP techniques and 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, 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.