

Ipsit Das

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GitHub: github.com/icode100 | LeetCode: leetcode.com/icode100 | Portfolio: icode100.github.io

EDUCATION

National Institute of Technology, Andhra Pradesh — *B.Tech CSE*
8.39 CGPA

Vishwa Bharati Public School, Noida — *XII (CBSE)*
90.8%

Neeraj Public School, Rajnandgaon — *X (CBSE)*
10 CGPA

PROJECTS

Photo To Anime Converter | *GANs, Computer Vision, PyTorch, Streamlit* June 2024

- Investigated **advanced Style Transfer Techniques** using **Cycle GANs** with **Identity Loss**, pushing the boundaries of image transformation.
- Engineered a model that seamlessly translates natural images into animated counterparts, enhancing visual creativity and realism.
- Trained the model with more than 6000 images for over 10 hours on T4 GPUs.
- [Application](#) | [GitHub](#)

Image Caption Generator | *Computer Vision, Natural Language Processing, PyTorch, Gradio* May 2024

- Utilized expertise in **image-to-text translation** with **transformers** to drive innovative solutions.
- Built and **fine-tuned** a model leveraging **Roberta** and **ViT** on the **Flickr 10k** dataset, optimizing performance for image captioning tasks.
- ROUGE2:** Precision = 0.114700, Recall = 0.124500, F1 = 0.114100
- [Application](#) | [GitHub](#)

English POS Tagger | *Natural Language Processing, Streamlit* March 2024

- Designed a model with **PyTorch** to generate POS tags for English sentences, enhancing user interaction.
- Implemented a **Hidden Markov Model** coupled with **Viterbi Decoding** to achieve accurate and efficient POS tagging.
- Weighted Average:** Precision = 0.54, Recall = 0.51, F1 = 0.52
- [Application](#) | [GitHub](#)

HoMan | *Django, React, SQLite, Redux* May 2023

- Designed a **full-stack** web application using **Django** and **React.js** for comprehensive hostel management.
- Integrated **SQLite** as the database and employed **Redux** for efficient state management, ensuring seamless data flow and user experience.
- [Admin Page](#) | [User Page](#) | [GitHub](#)

SKILLS

Languages C/C++, Java, Python, JavaScript, HTML/CSS, SQL

Tools PyTorch, NumPy, Scikit-Learn, Matplotlib, Pandas, React.js, Django, Streamlit, TensorFlow, Keras, Flask

Fundamentals Artificial Intelligence, Deep Learning, Database Management, Natural Language Processing, Computer Vision

ACHIEVEMENTS

- Solved over 500 problems on LeetCode.
- Ranked among the top 17% of coders on LeetCode with a rating of more than 1600.
- Secured position in top 1% among 16,686 candidates in NPTEL Online Certification Exam on [Cloud Computing](#)

CLUBS AND ACTIVITIES

GDSC NIT Andhra Pradesh | *Associate Web Developer*

- Collaborated closely with a cross-functional team to design and launch the GDSC website's front-end, is optimized for mobile devices, ensuring broad accessibility.
- Led the development of the team members' profile page, showcasing detailed information and contributing to enhanced user experience and team visibility.
- [Certificate](#)