

# Ipsit Das

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GitHub: [github.com/icode100](https://github.com/icode100) | LeetCode: [leetcode.com/icode100](https://leetcode.com/icode100) | Portfolio: [icode100.github.io](https://icode100.github.io)  
CodeChef: [codechef.com/users/icode100](https://www.codechef.com/users/icode100) | Codeforces: [codeforces.com/profile/icode100](https://codeforces.com/profile/icode100)

## EDUCATION

**National Institute of Technology, Andhra Pradesh — B.Tech CSE** *November 2021- Present*  
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](#)