# Ipsit Das

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## EDUCATION

**National Institute of Technology, Andhra Pradesh**                November 2021 - Present
*B.Tech CSE*                                                                **8.38 CGPA**

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

**Neeraj Public School, Rajnandgaon**
*X (CBSE)*                                                                   **10.00 CGPA**

## PROJECTS

**Revsy** |*React, firebase, Langchain*                                          May 2025
- Programmed **ReactJs** website to keep track of revisions of subjects with added provision of dsa problems and their notes using markdown.
- Architectured two types of pages **Problems** and **Concepts**.
- Used **firebase auth** for authenticating users and **firestore** as database
- Used **Gemini 2.0 flash API** and **Langchain** for summarization of problem description added by the user against the notes
- Application |GitHub

**Laplace Embedding for Complex Query Answering** |*Knowledge Graphs, Mathematics, PyTorch*    April 2025
- Utilized **Laplace distribution** to build and train model for answering complex logical queries over **knowledge graphs**
- Engineered and trained model over prominent benchmarking datasets **FB15k-237** and **NELL**
- The model surpasses current state of the art probabilistic model over FB15k-237 by over **5%** in all the metrics **MRR**, **Hit@1**, **Hits@3** and **Hits@10**
- GitHub

**Photo To Anime Converter** |*GANs, Computer Vision, PyTorch, Streamlit*        June 2024
- Conducted experiments with **Cycle GANs** to explore **Neural Style Transfer Techniques**, achieving high accuracy in image transformations and enhancing visual applications.
- Engineered a model that seamlessly translates natural images into animated counterparts, enhancing visual creativity and realism in two anime styles.
- Trained the model with more than 6000 images for over 10 hours on T4 GPUs.
- Application | GitHub

**HoMan** |*Django, React, SQLite, Redux*                                        May 2023
- Developed "HoMan," a full-stack web application using **Django** and **React.js** for hostel management at NIT Andhra Pradesh.
- Automated mess credit adjustments based on student leave days and streamlined outing management workflows.
- Digitized approval processes for security and hostel administrations, replacing traditional hard-copy forms.
- Leveraged **Django Admin** and **SQLite** for efficient data management and logging of student outing records.
- GitHub | Video Demonstrations: Admin Page | Users Page

## SKILLS

**Languages**: C++, Python, SQL, Java, JavaScript, HTML/CSS
**Tools**: PyTorch, NumPy, Scikit-Learn, Matplotlib, Pandas, React.js, Django, Streamlit, TensorFlow, Keras, Flask, Hadoop
**Fundamentals**: Data Strucutres and Algorithms, System Design(LLD &HLD), Microservices Architechture (Distributed Systems), Database Management, Artificial Intelligence, Deep Learning, Natural Language Processing, Computer Vision, Unix based Shell Scripting, Continuous Integration and Continuous Development, Big Data Analysis

## ACHIEVEMENTS

- **Knight** on LeetCode with best rating of 1911 and among top 4% LeetCoders.
- Achieved a global rank of 390 in Weekly Contest 446 on LeetCode.
- 3-star on CodeChef with a max-rating of 1608.
- Achieved a Global rank of 128 in CodeChef starters 170.
- Secured position in top 1% among 16,686 candidates in NPTEL Online Certification Exam on Cloud Computing
- Secured position in top 5% among 3358 candidates in NPTEL Online Certification Exam on RSAI

## CLUBS AND ACTIVITIES

**Google Developer Student Club, NIT Andhra Pradesh** |*Associate Web Developer*
- Collaborated closely with a cross-functional team to design and launch the GDSC website's front-end, optimized for mobile devices, ensuring broad accessibility.
- Contributed to the development of the team members' profile page, showcasing detailed information and contributing to enhanced user experience and team visibility.
- Certificate