SANIDHYA TAPARIA

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	9.22	2024
CBSE (XII)	Maa Bharti Sr. Sec. School, Kota	96.800	2020
CBSE (X)	Saint Paul Sr. Sec. School, Ajmer	95.000	2018

SKILLS

- **Programming Languages** : C, C++, Python, Javascript
- **Technologies and Frameworks** : React, NodeJS, MongoDB, React Native, Keras, Tensorflow, OpenCV, Pybullet, Git, Ubuntu, Windows
- **Areas of Interest** : Data Structures and Algorithms, Competitive Programming, Web Development, Computer Vision, Deep Learning

INTERNSHIP/TRAINING

Member of Technical Staff (MTS), Oracle May'23 - July'23

Oracle Corporation

- Development of an enhanced UI for the roles and profiles section in the **OCI (Oracle Cloud Infrastructure).**
- Addition of features such as *search functionality*, *bulk operations* for editing and deleting, and *pagination*.
- Exploring the **WFaaS (Workflow as a Service)** domain and creation of **scheduling features** for automation of tasks.
  Exposure: OJET (Oracle Javascript Extension Toolkit), Java, Docker, Maven.

Front End Developer, Freshbridge Technologies Dec'21 - Jan'22

Freshbridge Technologies - Digital Sales Network for Vegetables

- Development of Customer Facing Android Application using *React Native.*
- Worked with the founding team and Tech Lead on developing the application and maintaining API's on *AWS.*
  Exposure : React Native, Bootstrap, API Handling, AWS *(S3 Storage, DynamoDB, API Gateway)*

React JS Developer, MFL Educlub Dec'22

MFL Educlub - Learn, Upskill, Grow

- Development of Web Application focused to build a strong community to help students during placements.
- Worked with the tech lead with a team of *15+ members* to the making of a hassle-free UI.
  Exposure : ReactJS, Typescript, Material UI

PROJECTS

Spardha Website March '22 - May'22

Spardha - The annual Sportsfest of IIT BHU, Varanasi

- Part of the **5-member team** that created the website for Spardha.
- Was the **highest contributor by commits** in the repository of the site.
- Also handled the **Database** consisting of around **3000 active user** accounts.
- Also implemented **Google Analytics** functionality in React.
- **Hosted** at **Spardha'22**, **Github**
  Exposure: React, DRF (Django Rest Framework), Bootstrap, Google Analytics.

Udyam Website Sep'21 - Nov'21

Udyam - Annual technical fest of Electonics Engineering

- Part of the **15-member** team that built the **frontend** of the website for Udyam in **React.**
- Developed a **User Dashboard** facilitating registration, adding and deletion of teams using **React hooks.**
- **Hosted** at **Udyam'22**
  Exposure: React, MaterialUI, React Context API.

Handwritten Emoji Captcha Detection March '22 - April '22

Mosaic, Udyam '22

- Built a custom **Convolutional Neural Network (CNN)** using tensorflow and keras to recognize handwritten captchas, involving emojis and english alphabets.
- Trained model architecture for alphabets using **EMNIST** dataset.
- Applied techniques like *Adaptive Thresholding* and *Morphological Operations* to handle noise present in the image in the form of lines and dots.
- Added features to handle different orientations and thickness of handwritten characters.
- **Github**

Exposure: OpenCV, Python, Keras, Tensorflow, CNN, Deep Learning

Data Prediction Pipeline
April'22 - May'22

Cassandra, Udyam '22

- Built a prediction pipeline involving **Data Cleaning, Visualisation, Feature Extraction, Hyperparameter Optimisation** etc.
- The dataset consisted of payment details of different vendors against invoice date and due date.
- The model was trained using **XG Boost** and **CatBoost** regressors.
- **Github**

Exposure: Python, Pandas, Numpy, Pytorch, SkLearn.

Sentimental Analysis Using Social Media Posts
Feb'22 - April'22

Exploratory Project under Dr. Shivam Verma

- Developed a model to segregate comments based on emotions underlying into **positive** and **negative** comments.
- The dataset used was **Twitter Sentimental Analysis Dataset**(Sentiment140 Dataset), consisting of **1.6 Million** tweets.
- The model was trained using **Stacked LSTM**, **XG Boost.**
- **Github**

Exposure: Python, Numpy, Tensorflow, Natural Language Processing, nltk and stopwords library.

POSITION OF RESPONSIBILITY

- **Co-Coordinator, X-IoTA, Udyam '22** - Facilitated the smooth conduct of **IoT(Internet of Things)** event, and helped in formulating the problem statement.
- **Coordinator, La Robo Liga, Robotics Club** - Mentored freshers on the technical aspects of problem statement based on **OpenCV** and **Pybullet.**
- **Publicity Coordinator, Technex '22** - Approached Technical heads of different colleges to increase the reach of the fest.
- **Publicity Member, Kashiyatra '22** - Worked with a team of 40+ members to increase the reach of Cultural fest of our college.

HONOURS AND ACHIEVEMENTS

- Secured a rank of **2266** in **Jee Advanced '20.**
- Secured a rank of **1785** in **Jee Main '20.**
- Among the **Top 10** teams of **Cassandra '22**, a **Data Science** event organised under **Udyam '22.**
- **1st Runner Up** in the **IoT** event **X-IoTA** under **Udyam '21.**
- **Winner of Chase Unicorn '21**, a **Business Plan Pitching** competition organised by **E-Cell, IIT BHU.**

EXTRA-CURRICULAR ACTIVITIES

- An active member of the **Robotics Club, IIT BHU.**
- Worked on research projects under **RoboReG (Robotics Research Group) , IIT BHU.**
- **Speaker** on behalf of **Robotics Club** in **Nanyang Technical University, Singapore.**

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