JARPULA AJAY NAYAK

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Electronic Engineering IIT (BHU), Varanasi	8.13	2025
TSBIE (XII)	Sri Chaitanya JR Kalasala	97.00	2021
TSBSE (X)	Sri Chaitanya High School, Kukatpally,	92.15	2019

SKILLS

- **Programming Skills** : C++ , C , Python, SQL.
- **Frameworks and Libraries** : Django Rest Frame , ReactJS, Bootstrap.
- **Areas of Interest:** Data Structures and Algorithms, Competitive Programming, Web Development

INTERNSHIP/TRAINING

Software Developer Internship, Investco Capital Ventures Pvt. Ltd   May-July'24

- Integrated a third-party *API* to efficiently retrieve and securely store GST details of borrowers in the database.
- Automated referral emails using *SMTP* driving the acquisition of suppliers and buyers linked to first-level borrowers.
- Designed a reward system to manage voucher crediting and redemption using Django *Models* and *Signals*.
- Built an admin dashboard using *ReactJS*, for tracking the onboarding progress of referred users.
- Exposure: Python, Django, ReactJS, API.

PROJECTS

IdeaPad

- Developed a full-stack application for managing ideas using Django, Django REST Framework, and React.
- Implemented features for creating, updating, and deleting ideas with a focus on user-friendly design.
- Ensured seamless frontend-backend communication by resolving CORS issues and optimizing API integration.
- **Exposure**: Django, React JS, API

Autonomous Path Mapping Robot

- Simulated an autonomous robot on Pybullet that used live video feed from an overhead camera to apply Image Processing to navigate through an arena.
- Implemented Dijkstra algorithm to find the optimal path abiding by the given rules.
- **Exposure** : OpenCV, Aruco, Pybullet, Python.

Loan Application Predictor

- Performed an in-depth *Exploratory Data Analysis* on Loan data to understand customer behavior and found the most effective features across 13 features such as Credit History, Balance income, etc.
- Applied and tested various techniques like the imputation of *missing values, preprocessing of data, outlier detection, feature engineering* and dimensionality reduction for improving the accuracy of the model.
- Implemented machine learning models like *Linear Regression, Decision Tree and Random Forest* with an average accuracy of 75% for detecting loan defaulters and automating the loan eligibility process.

POSITION OF RESPONSIBILITY

- **Marketing Executive, Spardha'22**: Organized fundraisers, secured sponsorships and partnerships with companies.
- **Marketing Coordinator, Udyam'23**: Led outreach to tech companies for sponsorships via email and LinkedIn.

HONOURS AND ACHIEVEMENTS

- **Specialist** at Codeforces with a highest rating of 1510 (ID: Ajay_2022).
- Achieved **Global Rank** 595 and 435 in CodeChef Starters 147 and Starters 141 respectively.
- Secured **Global Rank** 1978 in Codeforces Round 940.
- Attained **Global Rank** 76 in Algo_Arena_01 at IIT BHU.
- Solved over **500 Problems** on LeetCode, Geeks For Geeks, and other platforms.

EXTRA-CURRICULAR ACTIVITIES

- **Devbits**: Participated in a competitive programming and web development event at Udyam'23, IIT BHU.
- **Mosaic**: Competed in a machine learning-based event during Udyam'23, IIT BHU.
- **Digisim**: Engaged in a digital electronics-based event at Udyam'23, IIT BHU.

T: 8309181800 **E:** ajaynayakj2@gmail.com **Address:** H:No 15-21-150/3/8 , New Balaji Nagar ,Kukatpally , Medchal , Telangana.