

Y.Sairaj Patro

Indian Institute Of Technology, Guwahati
B.Tech - Electronics and Communication Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	8.14	2019-2023
Senior Secondary	Telangana State Board	97.4%	2019
Secondary	CBSE Board	10.0	2017

EXPERIENCE

- **Samsung Research & Development Institute** May. 2022 - Jul. 2022
Software Developer Intern Delhi
 - Worked with Cloud Data Team to identify key problems in samsung search engines results.
 - Designed and integrated Python code to compare the search engine results with other potential search engines like google and searches from imdb .
 - Used rest APIs like google knowledge graph and imdb movies/tv shows API to improve upon the results of the search engine .
 - Delivered key findings to the entire cloud data cohort of 25 members.

PROJECTS

- **Campground Website** July - 2022
Self Project Github
 - Developed an Express.js based website , using Cloudinary API and MongoDB database technologies.
 - Supports CRUD functionality for campgrounds . Users can view and review campgrounds through maps displayed using MapBox API .
 - Deployed the application on Heroku .
- **Rider Driven Cancellation prediction** Feb - 2022
Cascade Cup IITG 2022 Github
 - Designed an ML model to predict cancellation of orders(mainly food orders) by delivery riders .
 - Used various ML predictions models like Catboost , LGBM and Bagging Classifier to get accurate predictions
 - Achieved ROC-AUC score of 0.77 making it Top 20 (round 2) among 200 candidates qualified for round 2 .
- **Palmprint recognition** Apr. 2022
Btech Project Github
 - Designed CNN based palmprint extraction model to extract palmprints to be used as personal identities .
 - Used spatial transformations to identify palmprints and compare with the person's identity for effective person identification .

TECHNICAL SKILLS

- **Technologies and languages:** Python, C++ ,SQL , Express.js , MongoDB, Excel , PowerBI , REST APIs , MySQL ,Matlab
- **Tech skills:** OOPs , Operating systems , DBMS , Time Series Analysis , Hypothesis Testing , Linear Regression, Gradient Boosted Tree, Deep Neural Net
- **Miscellaneous:** Visual Studio Code , Numpy , Pandas , Pytorch , Tensorflow
- **Operating Systems:** Windows, Linux

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra , Multivariate Calculus, Probability & Random Processes , Machine Learning , Linear Programming , Optimization methods , Data Structures and Algorithms
- **MOOCs:** Applied Machine Learning(in python) ,Applied Data Science(in python) ,Data Structures(in python)
- **Electrical and Electronics:** Signals And System(s), Digital circuits,Control Systems , Computer networks , Advanced Random processes

ACHIEVEMENTS

- **Top 20 in Cascade cup IITG 2023**,Secured 18th rank in Cascade cup IITG 2022 among 1000 participants. 2019
- **AIR 1546 in Joint Entrance Examination 2019** ,Secured 1546th rank (Top 0.1 percentile) in JEE Advanced .2019

EXTRACURRICULARS

- ML summer school 2021:** Attended a 3-day webinar series of Amazon ML summer school.
- Game Development workshop 2019:** Attended a 2-day workshop in Techniche IITG 2019.