Y.Sairaaj Patro

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Indian Institute Of Technology, Guwahati

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B.Tech - Electronics and Communication Engineering

LinkedIn

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 recogntion** *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 , REST APIs , MySQL ,Matlab
- **Tech skills**: OOPs , Operating systems , DBMS , Time Series Analysis , 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.