



Y.Sairaj Patro

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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 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** Aug. 2021 - Apr. 2022
Self 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/C++* ,JavaScript*
- Tech skills:** OOPs , Operating systems , DBMS
- Miscellaneous:** Numpy , Pandas , Pytorch , Tensorflow* , MongoDB*
- Operating Systems:** Windows, Linux * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra(MA102 ,MA101) , Multivariate Calculus(MA101), Probability & Random Processes(EE230)
- MOOCs:** Applied Machine Learning(in python) ,Applied Data Science(in python) ,Data Structures(in python)
- Electrical and Electronics:** Signals And System(s)(EE220), Digital circuits(EE210),Control Systems(EE250) , Computer networks(EE334) , Advanced Random processes(EE693)

ACHIEVEMENTS

- AIR 1546 in Joint Entrance Examination 2019** ,Secured 1546th rank (Top 0.1 percentile) in JEE Advanced .2019
- VITEEE 2019** ,Secured 93th rank (Top 0.1 percentile) in VITEEE 2019 .2019
- TS EAMCET 2019** ,Secured 408th rank (Top 0.3 percentile) in TS EAMCET 2019 .2019
- Manipal Entrance Test 2019** ,Secured 160th rank (Top 0.3 percentile) in Manipal Entrance Test 2019 .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.