

# Tanu Shree

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## EXPERIENCE

### Data Analytics Research Intern

Feb. 2024 – Present

*National Transportation Planning and Research Centre*

*Kochi, India*

- Utilized data analytics techniques to analyze freight movement through Cochin Port.
- Developed time forecasting models(NeuralProphet, SVM, HMM) to predict and optimize future freight volumes.
- Performed geospatial analysis using libraries(geopy, folium) to visualize the locations of exporters for freight.
- Created exporter clusters based on location data to facilitate efficient transportation planning.

### Machine Learning Intern

Oct. 2023 – Nov. 2023

*Cognifyz Techlogies*

*Remote*

- Collaborated on a project to build a restaurant recommendation system using machine learning.
- Implemented content-based filtering (TF-IDF) using libraries(Pandas & scikit-learn) to recommend restaurants based on user preferences.
- Developed an RNN using TensorFlow/PyTorch to classify restaurants based on their cuisine type.

## EDUCATION

### Cochin University of Science and Technology

Kochi, India

*Bachelor of Technology in Computer Science CGPA: 9.58*

*Oct. 2021 – Present*

## PROJECTS

### Approvalize | *Next.js, Tailwind CSS, Node.js, MongoDB, Python, Jupiter Notebook*

Feb. 2024 – Present

- Developed an Educational Approval System to automate application approval within educational institutions.
- Developed a user-friendly web application using Next.js, TypeScript, Tailwind CSS for streamline UX.
- Integrated a fine-tuned Llama-2 model to generate personalized request letters based on user prompts.

### JuryDAO | *HTML/CSS, React.js, Solidity IPFS/Filecoin, Chainlink, Push Protocol*

Nov. 2023 – Dec. 2023

- Developed a nonpartisan selection system for an unbiased jury selection process.
- Accepted members can mint a soul-bounded ERC721 NFT, as the primary identity for on-chain governance.
- Used the Chainlink VRF to ensure randomization in the selection process.

### Hyper-personalization of Mirror+ App | *React Native, Fast Api, AWS, Python*

Oct. 2023 – Nov. 2023

- Developed a dynamic User Interface using React Native, tailoring for a customized experience of South Indian Banks Mirror+ App. users. Trained LSTM model for predicting user map.
- Utilized customer demographic data provided by SIB for hyper-personalization of the application.

## SKILLS AND COMPETENCIES DOCUMENT

**Languages:** Python, C/C++, Java, Solidity, Javascript

**Libraries and Frameworks:** Pandas, Numpy, scikit-learn, Geopy, Folium, transformers, TensorFlow, PyTorch

**Additional:** SQL(Postreges), MongoDB, Machine Learning, Data Analytics, Git, Jupyter Notebook

## HONORS

**SIB Fin-a-thon'23 Finalist :** Hyperpersonalized South Indian Banks' Mirror+ App. with dynamic UI. Among top 15 teams in India.

**Smart India Hackathon'22 Finalist :** Developed the website for the team's proposed idea. Among top finalist of 2022

## CONFERENCE PRESENTATIONS

**Title:** Optimum Soil Moisture Prediction Using Leaf Wilting Patterns and Machine Learning Techniques in Precision Agriculture

IIT Roorkee Water Conclave (RWC2024) - Accepted for presentation

8th International Conference on Water Pollution Control Engineering Japan (WPCE 2023) - Accepted for presentation