

Dhanya Bahadur

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EDUCATION

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2021	6.96
Intermediate	CBSE	Chinmaya Vidyalaya Bokaro	2017	92.80%

Professional Experience

Data Scientist | Guavus [Jul'21-Present]

Production Ready Date Prediction for Manufacturing Site

- Understood the business context and needs of business owners through interviews and user story development
- Cleaned raw data to engineer features using techniques like **target guided encoding**, **binning** and others
- After identifying trends, factors that affected lead time, build three separate models for three constituent process
- Developed advanced machine learning and deep learning algorithms to deliver accurate prediction
- Print, Embedding and Manufacturing Lead Time model predicted the time required for printing, embedding and manufacturing the cards respectively
- Performed analysis of results by testing, validating and reformulating models to deliver accurate prediction

Customer Churn Prediction

- Build a Random Forest classification model by reducing the dimensionality of data using **Autoencoders**

Supply Chain Suite - Guavus Ideathon

- Worked in a team of four to create a plan to protect growth challenges faced by Supply Chain
- Developed a **CNN model** which utilizes **image** of the finished good to predict whether it is defected or not
- Facilitated smarter execution of orders, by developing a model to **predict the shipping time** between two ports

Data Analyst | Deterministic Algorithms Lab [May'20-Jul'20]

*Team Responsible for **Auto-Dubbing**(Research Paper Implementation)*

- Strategically generated the **Talking face** for auto-dubbing by **Lip-Syncing** image with the Lip-sync rate of **3.89**
- Performed analysis on the result and surveyed literature about **Synthesizing Speech** from the lip movements

Technical Projects

Self Driving Cars | Research Project [May'19-Aug'19]

Guiding Professor: Arpita Sinha, Department of System and Controls, IIT Bombay

- Gained insight on **Q-Learning**, used to develop an **Advanced Overtaking Policy** being integrated with **Behaviour-Based Architecture** giving impressive success rate on a complete driver for TORCS simulator
- Presented **technical briefings**, documenting progress, **accomplishments** and problem areas affecting the task

Junior Engineer | Team Rakshak [Dec'17-Mar'20]

Guiding Professor- Krishnendu Halder, Department of Aerospace Engineering IIT Bombay

- Key member of the team working on **UAVs** and provided feedback during all the phases of Operations
- Performed review sessions on flight controller **Pixhawk**, connected with transmitter, GPS and other components
- Configured the bot with **Mission Planner** and **QGround Control**, a full featured **ground station application**

Technical Proficiency

- **Software Packages/Library:** Numpy, Pandas, Matplotlib, Scipy, Sklearn, HyperOpt, Optuna, TensorFlow, PyTorch, Word2Vec
- **Programming Languages:** C++, Python
- **Miscellaneous:** Git, **Feature Engineering** (Encoding of rare categorical labels, Count encoding, Ordered Integer encoding, Mean Encoding), **Feature Selection** (Recursive Feature Elimination), **Hyperparameter Tuning** (GridSearchCV, RandomizedSearchCV, Bayesian Optimization), Machine Learning Algorithms (Linear Regression, Random Forest, K-means clustering, Logistic Regression, XGBoost, Light GBM, Neural Networks)