

# Tejodhay Bonam

Email address: [bonamtejodhay@gmail.com](mailto:bonamtejodhay@gmail.com)

Website: <https://github.com/TejodhayBonam>

LinkedIn: <https://www.linkedin.com/in/tejodhay-bonam-66b3661b0/>

Phone number: – 9494521175

Whatsapp Messenger: +91 9494521175

## EDUCATION

*Sri Sathya Sai Institute of Higher Learning*

**Bachelor of Science(Honours) in Mathematics – 8.2/10**

*Bangalore, Karnataka*

**2018 — 2021**

- Among the **top 5%** across all Mathematics, Physics, Chemistry streams in Bachelors

*Sri Chaitanya College of Education*

**Intermediate, MPC – 97.6%**

**2016 — 2018**

- Ranked among **top 0.1%** among all the students who appeared for the **Telangana State Board Exams**
- Scored **99 %ile** on **TS EAMCET**
- Scored **97.5 %ile** in **JEE MAINS 2018**

*Narayana Concept School*

**Secondary School – CGPA 10/10 (10<sup>th</sup> Standard)**

**2015 — 2016**

- Awarded **All-round Excellence Award** for the academic year 2015-16
- Selected as House Captain( Hansraj) from among **25+** applicants

## SKILLS

**Skills: -**

- Programming Languages : SQL, Python, R, C
- Platform Tools:

Data Science & machine learning: Jupyter Notebooks, IBM Watson Studio

Relational databases: MySQL server, PostgreSQL, MySQL, Power BI

Cloud databases: Amazon Web Service, Google Cloud, Microsoft Azure

**Technical Skills: -**

1. Programming
2. Data Analysis and Vizualization
3. Data modeling
4. Machine Learning
5. Model building, testing, deploying
6. Statistics and Mathematics

## WORK EXPERIENCE

**Arthashastra Intelligence Databases Pvt. Ltd - Data Science Intern**

**Jan 2021 - Present**

- Worked on NLP projects for client on customer reviews where I developed trained and tested complicated NLP algorithms such as BERT, GPT2 etc. for emotion and sentiment analysis.
- Presented the analysis on open-source BI tool Apache Superset.
- Performed client case studies on regression, clustering and classification

**Accenture Data Analytics Virtual Internship**

**Nov 2021 – Dec 2021**

Completed practical task modules on

- Project Understanding
- Data Cleaning and Modeling
- Data Visualization and Storytelling
- Presenting to the Client

## PROJECTS

### SOW.REAP.REPEAT:

- A simple ML and DL based website which recommends the best crop to grow, fertilizers to use and the diseases caught by your crops.

Check out the web application: <https://sow-reap-repeat.herokuapp.com/>

### Recommender systems using Python:

1. Movie Recommender system (Content based filtering)

Check out the app - <https://movie-recommendation-system0.herokuapp.com/>

- This application provides all the details of the requested movie such as overview, genre, release date, rating, runtime, top cast, reviews, recommended movies, etc.
- 2. Book Recommender system (Collaborative filtering)

### **Machine Learning models for Price Prediction:**

1. Flight Fare Prediction (a Flask web app which predicts fare of Flight ticket)
  2. Car Price Prediction
- Collected datasets from Kaggle (Flight Fare), Car Dekho (Car Price), Performed EDA, handled categorical data like Nominal data and Ordinal data using One Hot Encoding and Label Encoding respectively, Feature Selection using Heatmap, Model fitting using Random Forest, Hyperparameter tuning, Deployed the model using Heroku

### **Music Genre Classification using Lyrics**

1. This project aims to build a system that can identify the genre of a song based on its lyrics. We identify a set of features that establish the style of a particular song. We curate a set of songs with 5 labels – Rock, Hip-Hop, Jazz, Country and Pop. We then design three models to classify the songs into their genres – Multi Layer Perceptron for multiclass classification, Random Forest for binary classification and Convolutional Neural Networks with word embeddings.
2. We provide a user interface which would enable a user to input the lyrics of a particular song and our program would predict its genre based on the content of the lyrics.

### **Sports Celebrity Image Classification**

In this data science and machine learning project, we classify sports personalities.

Technologies: Python, Numpy and OpenCV for Data Cleaning, Matplotlib and Seaborn for Data Visualization, Sklearn for model building, Jupyter notebook, Visual studio code and PyCharm as IDE, Python Flask for http server, HTML/CSS/JavaScript for UI

### **Face Frontalization using Generative Adversarial Networks**

Given your side profile, does some magic inside 2 neural networks, generates your entire face. Cool, Right!

1. Based on the idea of expediting the process of catching criminals using Neural Networks.
2. This project pertains to using Deep learning model like adversarial networks (2 CNN neural networks) compete against each other, One to generate fake images(generator), other to defy it(discriminator).

### **Applied Data Science Capstone**

The project required the need to determine the success rate of launching the Falcon 9 space rocket and successfully landing it back down to earth.

#### **Summary of methodologies**

- Data Collection was performed using the following techniques (REST APIs, Web Scraping and CSV Datasets)
- An EDA overview was produced using the following techniques (SQL Queries, Visualization)
- Dashboards were designed using Plotly Dash
- Machine Learning Analysis was performed using the following methodologies (Linear Regression, SVM, Decision Tree Classifier and K Nearest Neighbor)

#### **Summary of all results**

- Based on the results an almost 90% chance of a successful landing on launches was determined which means 9/10 of all launches will produce a successful landing which is extremely favorable.

<https://drive.google.com/file/d/1m8uF4PUM-79jmYkxuA6YvWrYPDn2QGbT/view?usp=sharing>

### **Pothole Detection**

Detecting potholes on the road with state-of-the-art model yolov4

Technologies: OpenCV, yolov4, Flask.

### **Automatic Number Plate Recognition**

Detected the car number plate, getting the coordinates of the detected image, cropping and applying the OCR.

Technologies: HTML, OpenCV, yolov4, Google Tesseract.

### **AWS Transcribe (speech to text)**

Converted speech to text with the help of AWS transcribe and made an API with Flask.

Technologies: AWS (S3 bucket, AWS transcribe, AWS Lambda, IAM)

## LICENSES & CERTIFICATIONS

---

IBM Data Science Professional certificate  
Python for Data Science, AI & Development  
Data Analysis with Python  
Databases and SQL for Data Science with Python  
Data Visualization with Python  
Machine Learning with Python  
Google Data Analytics Professional certificate  
Data Analysis with R Programming  
Programming Fundamentals - Duke University  
Web Development – Internshala (Certificate of Training)  
Developing Your Musicianship - Berklee College of Music

## OTHERS

---

- **Brindavan Brass Band - Western Flute player**

Represented Sri Sathya Sai Institute of Higher Learning, Bangalore, Brindavan Campus in Inter-Campus Sports meet.

1. Was a part of the prestigious Brindavan Brass Band, played Western Flute for 5 different musical pieces.

2. Had 2 years of formal training in classical music.

- Won several **Badminton Championships at High School, College, district and State levels.**
- Secured **3 Gold medals** in **National Science Olympiads, Regional Mathematics Olympiad (RMO)**
- Qualified and received **certificate of merit** in **Indian National Mathematical Olympiad (INMO)**, **Merit Certificates** in **AMTI**(Association of Mathematics Teachers of India) **and NTSE**(National Talent Search Exam)
- **Inter-campus High Jump competition - First Prize (in all 3 years of UG)**
- **High School Swimming competition (Freestyle, Backstroke) - First Prize**
- **Brindavan campus Football team- Captain**
  1. Played a key role in the team selection and was responsible in deciding the team formation for every match learning from the previous match outcomes
  2. Successfully steered my team to the Finals in a league of 10 teams and finished as **runners-up** losing by 1 goal point

## CREATIVE WORKS

---

**indie recipe.** [ 08/04/2021 – Current ]

Fast, Beautiful and Fun way to learn basic cooking. indie recipe. is a YouTube channel that primarily focuses on making simple, easy and authentic Indian recipes, and other famous and delicious cuisines.

[https://www.youtube.com/channel/UCMEzq-oclOK3s\\_YEIJwolbA](https://www.youtube.com/channel/UCMEzq-oclOK3s_YEIJwolbA)

**NoCopyright BGM - Free Music for All** [ 18/03/2021 – Current ]

NoCopyright BGM - Free Music for All is a YouTube channel dedicated to search, catalog, sort, and publish No Copyright Music, Vlog Music and Royalty Free Music for content creators.

<https://www.youtube.com/channel/UCuyxzo4B8JtnOdg1KOWICcA>

**Love Shots!!** [ 10/03/2021 – Current ]

Love shots!! is all about love and relationship. This channel makes compilations of couples in cute relationships.

Enjoy amazing surprise compilation videos of all time. Get yourself thrilled, crack your ribs and build your relationship. <https://www.youtube.com/channel/UC39xSk2Fgl4D4G3jNHXf93w>

## PERSONAL INTERESTS & LANGUAGE PROFICIENCY

---

**Languages:** English, Telugu & Hindi (**Advanced**)

**Hobbies:**

- Video Compilations, Logo Designing, Thumbnails designing and Audio Visualizations  
*Video Compilations - OpenShot video editor*  
*Logo Designing & Thumbnails designing –Canva*  
*Audio Visualizations - Vizzy.io*
- Reading Books & Articles (**Non- Fiction** - Business & Technology Related, Biographies **Fiction** - Novels), learning Musical instruments, Podcasts, Badminton
- Interested in attending various workshops, online webinars of Amazon AWS, Google Cloud, Edureka, Simplilearn on topics Cyber security, Data Analysis, Web Development, Digital Marketing and Affiliate marketing