



Bale Teja Rama Chandra Murthy
Computer Science & Engineering
Indian Institute of Technology Bombay

200050020
B.Tech.
Gender: Male
DOB: 28/04/2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	8

Pursuing **Honors in Computer Science and Engineering**

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 263** in **Joint Entrance Examination Advanced** amongst 1,50,838 candidates (2020)
- Secured **All India Rank 185**, with a percentile score of **99.98** in **JEE Main** out of 1.02 million candidates (2020)
- Secured **100 percentile** in **Mathematics** in **Joint Entrance Examination Main** (2020)
- Cleared **RMO** and qualified to appear in the Indian National **Mathematics Olympiad(INMO)** (2017)
- Among India's **Top 800** students selected for Indian National **Chemistry Olympiad(INChO)** (2019)
- Scored **352 out of 450** in the entrance test of Birla Institute of Technology and Science(**BITSAT**) (2020)
- Secured **39th rank** in **Science Talent Search Examination(STSE)** (2018)

INTERNSHIP EXPERIENCE

Real Time Fantasy Points Prediction | *Dream11*

(Summer 2023)

Data Science Intern

- Developed a **Real-time predictive model** for forecasting the player's Final Fantasy Points as the match progress.
- Conducted exploratory data analysis **EDA** on player's Fantasy Points, revealing distinct patterns in Fantasy Points variations among different categories (Batsmen, Bowlers, and All-rounders)
- Trained **Random Forest, XGBoost, Tabnet, and ANN models**, comparing MAE for performance evaluation

KEY PROJECTS

Stock Market Prediction | *Course Project*

(November'22)

Guide: Prof. Abir De, Department of Computer Science & Engineering

- Explored and compared **CNN, LSTM and GRU** non-linear algorithms for capturing complex stock data patterns
- Compared model performance on Google stocks, observing LSTM and GRU roughly **10 times** superior to CNN
- Identified LSTM and GRU's robust cross-stock generalization, with GRU showcasing superior performance

Float Moodle | *Course Project*

(Autumn 2021)

Guide: Prof. Amitabha Sanyal, IIT Bombay

- Developed a **Modular Object Oriented Dynamic Learning Environment** as a part of a team of 4 people.
- Used **Django** as the backend framework and **HTML & CSS** to implement the frontend and **PostgreSQL** database.
- Designed **Course Discussion forum, Analytics Page and Private Chat** using **redis server**

Hyperspectral Image Classification | *Course Project*

(March'23 - April'23)

Guide: Prof. Mohan B. Krishna, Department of Computer Science & Engineering

- Employed **Kernel PCA** on **Indian Pines** remote sensing data, elevating land cover classification accuracy.
- Designed efficient preprocessing pipeline, utilizing **Kernel PCA** for feature extraction and dimensionality reduction.
- Innovated **classification algorithm**, merging kernel methods & PCA, fine-tuning hyperparameters for precision.

Gaia data Analysis | *Krittika Project*

(July'22)

Guide: Himanshu Verma, Krittika - The Astronomy Club

- Employed a fundamental **ADQL query** to retrieve a data sample from the Gaia server
- Focused analysis on a specific class of sources within the Gaia catalog, establishing compelling distributions of diverse physical quantities and source characteristics

Study Planner App | *Course Project*

(Autumn 2021)

Guide: Prof. Amitabha Sanyal, IIT Bombay

- Built an Android App using **Android Studio** that keeps track of assignments, lectures and exam schedules.
- Added Navigation Menu and tabbed fragments to display different plans and events with a recycler view.
- Designed calendar for efficient task view, with event day markers and summarized counts on selected dates.

TECHNICAL SKILLS

Programming	C/C++, Python, PostgreSQL, Java, JavaScript, HTML, CSS, Django
Software	Git, L ^A T _E X, MATLAB, Android Studio
Python Libraries	SciKit, Pandas, NumPy, Plotly, Matplotlib, Streamlit, SciPy, PyTorch, Tensorflow