Tarunsai Goddu   190070024
Electrical Engineering   **B.Tech.**
Indian Institute of Technology Bombay   **Gender: Male**
                                                        DOB: 9/28/2001

Examination	University	Institute	Year
Graduation	IIT Bombay	IIT Bombay	2023

SCHOLASTIC ACHIEVEMENTS

- Secured **All India Rank 556** in **KVPY** and received the prestigious fellowship by **IISc-Bangalore** *(2018)*
- Placed in **National top 1 %** in the National Standard Examination in **Physics (NSEP) - IAPT** *(2018)*
- Achieved **99.57 percentile** in Joint Entrance Examination Advanced among **245,000 candidates** *(2019)*

PROFESSIONAL EXPERIENCE

Bank of America | *Analyst Intern* | *Equity Research*   *(Jun'22 - Aug'22)*

- Forecasted **valuation** through the historical performance of **20+ IT stocks** through financial statement analysis
- Updated **financial model metrics** from profit & loss, cash flow, and balance sheet of the companies in the reports
- Assisted **research analyst team** in report preparation to provide investors with an overview of the **IT industry**

Oracle Corporation | *SDE Intern* | *Data Resiliency Checks*   *(May'21 - Jul'21)*

- Developed software for **periodic and automated validation** of the relevant customer usage **information data**
- Validation to ensure that **integrity** is achieved by cross-checking many metrics on both ends of the **data pipeline**
- Setup an **email trigger** which alerts the concerned authority in case of inconsistencies found in metrics computed

IIM Bangalore | *Research Internship* | *Prof. Anirudh Dhawan*   *(Nov'20 - Dec'20)*

*Received a **Letter of Recommendation** from the professor for exemplary performance during the winter internship*
- Performed **sentimental analysis** on RBI statements and correlated with **abnormal swings** in the stock market
- Tested **long-short strategies** on historical NSE stock data; a value-based strategy yielded a **16.4%** annual return

KEY PROJECTS

Blockchain-Based Voting Solution | *SLP, IIT Bombay*   *(Aug'21 - Nov'21)*

- Developed an end-to-end **decentralized voting** platform to organize secure elections using the **Azure Blockchain**
- Applied the concepts of **cryptography** to ensure the anonymity of voters on a public blockchain during the election
- Constructed the front-end using **Angular** and implemented the service to encrypt and decrypt votes using Python

Option Pricing Models & Their Accuracy | *Manch 4.0, Deutsche Bank*   *(Jan'21 - May'21)*

- Delved into types of **Options & Pricing methodology** to analyse drivers that explain the **pricing behaviour**
- Achieved an accuracy of **78%** through **Neural Networks** against the Black Scholes Model of the accuracy of **58%**

Automatic Speech Recognition System | *Signal Processing, Course Project*   *(Aug'20 - Nov'20)*

- Built a Speech Recognition system using vector quantized **Codebook Matching** and **MFCC feature extraction**
- Achieved 75.89% accuracy on clean set and 47.65% accuracy on a noisy set of **Google Speech Commands** dataset

Algorithmic Trading System & Dashboard | *Algorithmic Trading, Self Project*   *(Jan'22 - Mar'22)*

- Designed and deployed a **Trading system** with a Python codebase on the **AWS Cloud** for optional 24/7 uptime
- Integrated **Zerodha** KiteConnect **REST APIs,** autonomously placing **options** orders, using the generated triggers
- Effected a **GUI** with configurable models like **LSTMs, ARIMA** and displayed the **live results** in the dashboard

POSITIONS OF RESPONSIBILITY

Associate Placement Coordinator | *Institute Placement Team, IIT Bombay*   *(Jul'21 - Dec'21)*

*Part of a **20-membered** managerial team, Executed the end-to-end operations in an online campus placement season*
- Strategized and accomplished the entire **recruitment process** for **400+ firms** which impacts **1900+ students**
- Handled **10+ International firms** as a single point of contact | Organized **100+** Tests, **50+** Pre-Placement Talks
- Led team of **200+** Interview coordinators for smooth execution of **8000+** online campus interviews over 15 days
- Schemed & achieved **250+** PPO's from 180+ firms with a **65%** y-o-y Increase | Being **25%** of the overall recruitment

TECHNICAL SKILLS & CERTIFICATIONS

- Pursuing **MSc** in **Financial Engineering** & **Data Science** Specialization offered by **WorldQuant University**
- **Programming/Frameworks:** Python, C, C++, JavaScript, SQL, Tensorflow, PyTorch, OpenCV, Numpy, Flask
- **Online Courses:** Financial Markets, Trading Algorithms, ML for Trading, Private Equity and Venture Capital
- **Domain Knowledge:** Derivative products & modelling, Blockchain Protocols, Stochastic Calculus & Econometrics

EXTRACURRICULAR ACTIVITIES

- **Interests:** Football (Manchester United), Cricket, Travel, Photography, Volunteering, Algorithmic Trading
- Developed a **Crypto Arbitrage Bot** to execute trading strategies between Perpetual Protocol and FTX exchange
- Represented Andhra Pradesh **State Cricket team** in the South Zone , **Inter-State U-16 cricket tournament**
- Organized E-cell IIT Bombay **Virtual Stock Market Event** targeting for **1500+ college students** across India
- Assisted in creating a **Virtual platform** resembling the institution for the **online convocation** of the batch 2021