

# Denny B. Justin

dennybjustin2911.iitkgp@gmail.com | +91 9400626304 | denny-b-justin-2340a1215 | portfolio/[dennybjustin](#) | github/Denny-B-Justin

## EDUCATION

**Dual Degree in Agricultural and Food Engineering (M.Tech Dual 5 yr)** India | November 2020 to Present  
INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR CGPA: 7.51/10

Agricultural Systems and Management

Micro-specialization in Entrepreneurship and Innovation

## PUBLICATIONS

**Investment Analysis of Tata Consultancy Services** | FINANCIAL ANALYST PROGRAM 2023, FINLATICS  
| Link: <https://bit.ly/4hgusik> | April 2023

- Devised investment strategies by conducting fundamental and technical company financial performance analyses.
- Got recognized for delivering the **best equity research report** among the top **2,000 articles** and published.

## RESEARCH PROJECTS

**Image-Based Machine Learning for MSME Development** | RESEARCH ASSISTANT, UNIVERSITY OF CAMBRIDGE  
| Mentor- Prof. Jaideep Prabhu, Cambridge Judge Business School | August 2023 – March 2024

- Comprehensive study on **CSR practices** adopted by MSME firms; Observed an increase of 60% increase MSMEs.
- Developed a picture coding Machine Learning model using **Python**, leveraging various **computer vision algorithms**.
- Built a **Machine learning model** using Tesseract algorithms to identify text from **2000+** micro-entrepreneur images.
- Working on **Web Scrapping** project using Python to provide administrative data-driven decision-making.

**Board of Directors in Corporate Governance Scandals** | RESEARCH ASSISTANT, IESE BUSINESS SCHOOL  
| Mentor- Prof. Nuno Fernandes, Finance Dep. IESE Business School Barcelona | July 2023 – April 2024

- Performed equity analysis on **Dow 30, Euro Stoxx 50, and Top 10 European banks** from annual reports; Analyzed the data and performed feature engineering using Python.
- Analysed **mergers & acquisitions** of global firms and prepared 30+ case studies on companies that faced **corporate governance scandals** from 500+ news articles and annual reports.
- Developed **Python** models to extract the data from **1000+ research articles and 300+ annual reports** to build analysis models and understand the **impact of decisions of board members** on financial performance.
- Constructed a database of top Portuguese companies with corporate governance details of the board of directors and executives, including tenure duration, **total compensation, fixed compensation, and variable compensation**.

**Assessing Bankruptcy Risk in Indian PSUs in adoption of TReDS** | RESEARCH INTERN, IIM KOZHIKODE  
| Mentor- Prof. Aswin Alora, Finance and Control Dep. IIM Kozhikode | May 2023 – June 2023

- Studied the impact on bankruptcy risk of Indian firms by analyzing the impact caused on the **Zmijewski Financial Score (ZFS)** due to the adoption of TReDS by Public Sector Undertaking (PSU) firms of India.
- Extracted and analyzed financial data of 90+ firms in India based on pre- and post-TReDS adoption period using **Bloomberg Terminal**; Conducted comprehensive study of **Supply Chain Finance** solution implemented by RBI.
- Identified a **23%** reduction in bankruptcy risk on companies due to TReDS adoption; Deployed logistic regression and paired T-test on financial ratios and Zmijewski Financial Score using Python and SPSS.
- Extracted and analysed secondary financial data of Indian firms using **Python, Bloomberg and SPSS** software.

## INTERNSHIPS

**Financial Markets Intern** | NATIONAL INSTITUTION OF SECURITIES AND MARKETS (NISM), SEBI  
| Articles: <https://bit.ly/3viPxYW> | Securities and Exchange Board of India | September 2023 – November 2023

- Developed content explaining the features, benefits, and caution on investing in various financial market instruments, including **Financial Analysis, Stock Valuation, Asset Management, and Algorithmic trading**.
- Obtained **8 Million+ views** by developing **SEO strategies** and optimized content to improve search engine rankings.
- Contributed to NISM's blog pages, ensuring the publication of well-researched, accurate, and timely content.

## Equity Markets and Investment Banking Research | STOCK MARKET, FINANCE, MARKET RESEARCH | Finlatics | January 2023 – April 2023

- Built finance and consulting project aiming to assess investment proposals and identify potential start-ups
- Engaged in the setup of a **Private Equity fund**, focusing on **investing cycles and sectoral orientation**.
- Analysed **mergers & acquisitions** in Indian markets to find successful exits in the private equity space.
- Identified emerging market opportunities and potential risks to create well-informed investment strategies.
- Maintained a real-time virtual stock market portfolio for two months; generated a total return of **23.19%**.

## LEADERSHIP

### Executive Student Member | INSTITUTE WELLNESS GROUP, IIT KHARAGPUR | Mental and Academic Well Being of Students | August 2021- April 2022

- Led a team of **31** Associate Student Members to ensure the effective and smooth functioning of the events.
- Organized an online webinar on "Selfcare"; budgeted the event and audited an account of **1 Lakh INR**.
- Achieved **15% YoY** increase in footfall for the event "Moments of Gratitude" with over **500+** participants.

### Secretary | COMMUNIQUE, IIT KHARAGPUR

| Official Soft Skills & Personality Development Society of IIT Kharagpur | August 2021 - April 2022

- Coordinated and delivered keynote presentation during the introductory seminar with **1000+** first-year students.
- Managed a group of **25 Associates** & organised a webinar on "Internship-gear up" with 400+ student participation.

## COMPETITION AND CONFERENCE

### Delegate | HARVARD CONFERENCE (HCONF) 2024, CAMBRIDGE, MASSACHUSETTS

| Harvard Project for Asian and International Relations (HPAIR) | December 2023

- One of the **top 2000 students** invited globally for **HCONF 2024** organized by Harvard University.

### Delegate | ASIAN INVESTMENT BANKING CONFERENCE (AIBC) 2023, HONG KONG

| London School of Economics | August 2023

- One of the **top 350 students** invited globally for **AIBC 2023** organized by London School of Economics (LSE).

### Beyond Chatbot Fintech Hackathon | UNIVERSITY OF CAMBRIDGE, MACHINE LEARNING, FINTECH

| Cambridge SupTech Labs, Cambridge Centre for Alternative Finance | July 2023 – August 2023

- Participated and delivered keynote presentation for global fintech hackathon - "Beyond Chatbot Fintech Hackathon" based on innovation in customer complaint data management
- Developed machine learning model of **69.5% accuracy** using the **Random Forest** to analyze systemic risk engaged with customer complaints and developed a model desktop for firms to study risk engaged with complaints.

### Algorithmic Trading Hackathon | QUANTITATIVE FINANCIAL STRATEGY, STOCK MARKET

| AlgoSwarm 2023, QuantHive | May 2023

- Designed a profitable portfolio by **Algorithmic Trading Strategy** using Blueshift software and technical indicators.
- Obtained a cumulative return of **102.41%** and Sharp ratio of **2.45** by backtesting with the stock price data.

## COURSES

### BLOOMBERG MARKET CONCEPTS

Bloomberg

### FINANCIAL INSTITUTIONS AND MARKET

Vinod Gupta School of Management

### ECONOMICS

HUMANITIES AND SOCIAL SCIENCES DEPARTMENT

### PROGRAMMING AND DATA STRUCTURES

COMPUTER SCIENCE DEPT.

## SKILLS

**Programming:** Python, RStudio, C, C++, SQL, MATLAB, NumPy, Pandas, Scikit-learn, Matplotlib, BigQuery, OpenCV, LaTeX, SPSS

**Finance and Stock Market tools:** Bloomberg Terminal, Big Data, MS Excel, Blueshift, Yahoo Finance, TradingView, Investopedia

**Authorized Author at:** National Institute of Securities Markets (NISM)