Nivedita Manepalli

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EDUCATION & SCHOLASTIC ACHIEVEMENTS

- **IIT Madras (Indian Institute of Technology, Madras)** — *Chennai, India* — *June'13-Present*
  Bachelor of technology in Aerospace Engineering, *Minor in Systems Engineering* : CGPA: 7.8/10

- **Narayana Junior College** — *Vishakapatnam, India* — *June'11 – May'13*
  Higher Secondary Certificate (Class 11th & Class 12th): 96.40 % aggregate score
    - Top 5% of the class

- **Sri Vishweshwaraiah School** — *Bellary, India* — *May'11*
  Senior Secondary Certificate, ICSE (Indian School Certificate Examination): 90.85% aggregate score

- Received **National Stock Exchange Certified Investment Analyst Pro Proficiency certificate** for clearing **four** modules — *2016*
- Secured **All India Rank 371** (out of ~**1.4 million** students) in JEE Mains 2013 - equivalent to All India Engineering Entrance Exam AIEEE — *2013*
- **Top 0.5%** in JEE Advanced 2013, **Top 0.02%** in JEE Mains 2013 & **Top 0.5%** in EAMCET[1] 2013; Scored **100%** in Mathematics in class XI(BIE[2])

RELEVANT COURSES & SKILLS

- **ECONOMICS**
    - Principles of Economics
    - Macroeconomics[3]
    - Microeconomics[3]
    - Pubic Economics[3]
    - Advanced Topics in Economic Development

- **FINANCE & DATA SCIENCE**
    - Process Optimization
    - Multivariate Data Analysis
    - Applied Time Series Analysis
    - Investment Analysis & Portfolio Management

- **MATHEMATICS**
    - Linear Algebra & Numerical Analysis
    - Differential Equations & Numerical Methods
    - Complex numbers and Series

SKILLS: R Programming, C, C++, MATLAB, AutoCAD, **VBA & Macros** in MS Excel, Proficient in MS PowerPoint

PROFESSIONAL EXPERIENCE

Goldman Sachs Group, Inc. Finance Division, Market Risk Management — Bangalore, *May'16-Jul'16*
- Developed a **quantitative stochastic model** to eliminate arbitrage opportunities in equity options
- Improved algorithm run time by **85 times** than current solver for all positions across ~4000 equity options
- Removed **99.99% arbitrage opportunities** in implied volatility surface used in pricing & value at risk models
- Calibrated against option market quotes with **99.99 % accuracy**, thus depicting the market scenario accurately

CSIR-National Aerospace Laboratories, Computational Theoretical Fluid Dynamics — Bangalore, *May'15-Jun'15*
- Solved **lid-driven cavity problem** by using vorticity-stream approach of **Navier-Stokes equation**
- Analysed numerical methods used to solve 1D & 2D advection equation by **Fourier mode analysis**
- Implemented **conjugate gradient method** to solve Laplace & Poisson equations by iterative methods
- Results obtained are used in ongoing research & industrial applications such as short & flexible dwell coaters

Tharakan Web Innovations, IIT Madras Research Park — Chennai, *Jun'15-Jul'15*
- Identified product requirements for **enhancement of existing software offerings** of D-Verify
- Optimised **digital customer experience** by designing a software from end-to-end for seamless experience
- Automated the generation of user experience and monthly P&L data through Excel/VBA module

LEADERSHIP ROLES

Shaastra, ISO certified Annual Technical Festival of IIT Madras; biggest technical festival of South India

Core Team Member, Professional Shows & Exhibitions, Shaastra '17 (*Nominated by Dean of Students*)
- Heading a **3 tier team of 27 students** with an allotted budget of over **INR 20 lakhs**
- **Restructured** Shows and Exhibitions team to implement targeted efforts & improved efficiency
- Conceptualized **Tech & Innovation Fair, student exhibits**; Engaging investors, students, & organisations
- Liaising with Foreign Embassies, facilitating promotion of cultural & technological exchange in India

Coordinator, Shows & Exhibitions, Shaastra'16, *May'15- Jan'16*
- **Part of 1st Shows team** to orchestrate **2 International Shows** with **10,000+** footfall **(budget INR 17.5 L)**
- Individually responsible for organising Freestyler Show **(France Got Talent Finalist)** (budget INR 8 L)
- Planned & staged 4 Exhibitions spanning 4 days; Organized Student Exhibition – engaging the crowd of 5000

International & Alumni Relations, Student Council, IIT Madras

Sponsorship & Branding Coordinator, I&AR '16 *Jun'15-Mar'16*
- Part of **5 membered team** connecting alumni, students, teaching & non-teaching staff of IIT Madras
- Collaborated with 8+ brands such as Allen Solly, Van Heusen in getting exclusive offers to students
- Nominated to represent IIT Madras at Hyderabad Alumni Chapter Meet(Pan IIT Alumni meet) at ISB[4]
- Launched 1st ever **IIT Madras Merchandise Portal**

EXTRA & CO-CURRICULAR ACTIVITIES

Conferences — *2017*
- **1 amongst 100** global delegates from 35+ countries selected to attend 33rd **International Leadership Conference, Prague**
    - Received special mention on essay "Policies & Initiatives to tackle current poverty in India"
- **1 amongst 250** delegates selected to attend **Harvard US-India Initiative**, Mumbai
    - Secured **third** position in **Dalberg Case Study Competition** on Public Private Partnerships

Intellectual Pursuits — *2015 / 2014*
- 4th among 98 teams from all over India in **Corporate Strategy** contest (Cognito'15 – Theme Conglomerate)
    - Formulated & executed M&A Strategy; Provided a complete financial analysis for both parent & subsidiary companies
- Business Development Associate - Clozerr (Institute Start-up), Entrepreneurship Cell of IIT Madras — *2014*
    - Acquired customers during company's inception leading to a successful pilot launch of the application

Social
- Volunteer, **Indian Literacy Project –** Taught 200+ underprivileged students Science in Kannada, Bangalore — *2016*
- Volunteered for 20+ hours in **Adayar Cancer Institute** as a member of Campus Palliative Care(CPC), IIT Madras — *2015*

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[1] EAMCET – Engineering Agricultural and Medical Common Entrance Test   [2] BIE – Board of Intermediate Education of Andhra Pradesh   [3] Ongoing Courses   [4] ISB – Indian School of Business, Hyderabad