

# Nivedita Manepalli

Room number 117, Tunga Hostel, IIT Madras, Adyar, Chennai – 600036, India

☎ (+91)-9940557095 | ✉ [niveditamanepli@gmail.com](mailto:niveditamanepli@gmail.com) | [in.linkedin.com/in/nivedita-manepalli](https://www.linkedin.com/in/nivedita-manepalli)

## EDUCATION & SCHOLASTIC ACHIEVEMENTS

- **IIT Madras (Indian Institute of Technology, Madras)**  
Masters and Bachelors of Technology in Aerospace Engineering, *Minor in Systems Engineering*: CGPA: 7.8/10  
*Chennai, India  
June'13-Present*
- **Narayana Junior College**  
Higher Secondary Certificate (Class 11<sup>th</sup> & Class 12<sup>th</sup>): 96.40 % aggregate score  
*Vishakapatnam, India  
June'11 – May'13*
- **Sri Vishweshwaraiah School**  
Senior Secondary Certificate, ICSE (Indian School Certificate Examination): 90.85% aggregate score  
*Bellary, India  
May'11*

## RELEVANT COURSES & SKILLS

- **ECONOMICS**
  - Principles of Economics
  - Macroeconomics
  - Microeconomics
  - Pubic Economics
  - 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**
  - Analyzed 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

## LEADERSHIP ROLES

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

- Core Team Member,**  
**Professional Shows & Exhibitions, Shastra '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, & organizations
  - Liaising with Foreign Embassies, facilitating promotion of cultural & technological exchange in India

- Coordinator, Shows & Exhibitions,**  
**Shastra'16, May'15- Jan'16**
  - **Part of 1<sup>st</sup> Shows team** to orchestrate **2 International Shows** with **10,000+** footfall (**budget INR 17.5 L**)
  - Individually responsible for organizing 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
  - Launched 1<sup>st</sup> ever **IIT Madras Merchandise Portal**

## EXTRA & CO-CURRICULAR ACTIVITIES

- |  |   |              |
|--|---|--------------|
| Conferences  | <ul style="list-style-type: none"><li>▪ <b>1 amongst 100</b> global delegates from 35+ countries selected to attend 33<sup>rd</sup> <b>International Leadership Conference, Prague</b><br/>- Received special mention on essay “Policies &amp; Initiatives to tackle current poverty in India”</li><li>▪ <b>1 amongst 250</b> delegates selected to attend <b>Harvard US-India Initiative, Mumbai</b><br/>- Secured <b>third</b> position in <b>Dalberg Case Study Competition</b> on Public Private Partnerships</li></ul>   | 2017         |
| Public Policy Bootcamp, Vision India Foundation (21-day Summer School) | <ul style="list-style-type: none"><li>▪ <b>Engagements</b><br/>- Interacted with <b>renowned academicians, politicians, social workers, bureaucrats</b> including the likes of Mr. Prakash Javedkar, Dr. Jayaprakash Narayan, Dr. Raj Sinha to gain insight in the field of policy making and good governance</li><li>▪ <b>Experimental Learning</b><br/>- Met the <b>Chief Medical Officer</b> of the district Govt Hospital, Sonipat(Haryana) to get a knowhow of hospitals of the area</li><li>- Participated in various workshops, solution design jams and implementation plans to <b>learn through practical modeling</b></li><li>- Undertook the <b>elective ‘Panchayat Raj Institutions in India’</b> to get the basic understanding of local governance in India</li></ul> | 2017         |
| Intellectual Pursuits  | <ul style="list-style-type: none"><li>▪ <b>4<sup>th</sup></b> among 98 teams from all over India in <b>Corporate Strategy</b> contest (Cognito'15 – Theme Conglomerate)<br/>- Formulated &amp; executed M&amp;A Strategy; Provided a complete financial analysis for both parent &amp; subsidiary companies</li><li>▪ Business Development Associate - Clozerr (Institute Start-up), Entrepreneurship Cell of IIT Madras<br/>- Acquired customers during company's inception leading to a successful pilot launch of the application</li></ul>  | 2014         |
| Social   | <ul style="list-style-type: none"><li>▪ Volunteer, <b>Indian Literacy Project</b> – Taught 200+ underprivileged students Science in Kannada, Bangalore</li><li>▪ Volunteered for 20+ hours in <b>Adayar Cancer Institute</b> as a member of Campus Palliative Care(CPC), IIT Madras</li></ul>   | 2016<br>2015 |