



Nicho Priyatham
Engineering Physics
Indian Institute of Technology Bombay
Specialization: Nanoscience

15D260010
UG Third Year (Dual Degree)
Male
DOB: 17-Jan-1997

TECHNICAL PROJECTS

- **Machine Learning | Computational Condensed Matter** [Dec'17-present]
Supervised learning project; Guided by – Prof. Soumya Bera
 - Covered topics in supervised learning which include polynomial regression, **logistic regression**, **neural network** and applied this topics to generate **Boltzmann machine**
 - Solved problems related to clustering of the given data using **K-Means algorithm**
- **Technology Mapping | Tree Covering In Python** [Oct'17-Nov'17]
Course project; Guided by – Prof. Sachin Patkar
 - Generated an algorithm that finds all possible coverings of a pattern tree library (with symmetric and unsymmetrical pattern trees) over a given input subject tree
 - Given cost to each pattern, found the tree covering with **minimum cost** using **dynamic programming**.
- **Implementation on FPGA | Piplined Microprocessors** [June'17-July'17]
Summer project; Guided by – Prof. Sachin Patkar
 - Worked on **6-stage** pipelined implementation of a RISC microprocessor
 - **Implemented its VHDL code** on FPGA and tested it using a 7 segment display
- **Implementation on FPGA | Random Prime Number Genrator** [Feb'17-April'17]
Course Project; Guided by – Prof. Pradeep Sarin
 - **Coded Rabin Miller** algorithm in VHDL to generate random prime numbers up **1024-bit**
 - Performed FPGA implementation to output 32-bit prime number on LED array
 - Attempted to display the output on VGA monitor and 16x2 charecter LCD display
 - Was Awarded AA Grade for impressive work
- **Data Analysis and Interpretation | Linear Regression In Python** [April'16-Jan'17]
Course Project; Guided by – Prof. Vikram Rental
 - Performed mathematical operations on columns with more than 50,000 elements, generated sample space for this data with selected rows.
 - Ploted Histograms, Error bar diagrams, Contour using Matplotlib
 - Developed Linear and Polynomial regression by **minimizing χ^2 estimate**
- **Computer Programming | Polynomial Solver** [Oct'15-Nov'15]
Course Project; Guided by – Prof. Varsha Apte
 - **Designed a data structure** to represent polynomials and implemented functions which could add, subtract, multiply, divide and also differentiate and integrate polynomials
 - Developed algorithms to find **two roots** and **generate graph** of given polynomial function

TECHNICAL SKILLS

Languages : C++, Python, VHDL

Softwares and Tools: \LaTeX , OriginLab, Quaters, ModelSim

PROFESSIONAL EXPERIENCES

- **Marketing and Business Development | Tinystep** [May'17-June'17]
India's largest parenting social network platform
 - **Interacted with key B2B executives** of leading corporates through cold-calling and presentation to establish new marketing deals
 - Assisted senior executives in evolve high **impact strategies** and designed **marketing proposals** by analyzing the target audience of the leads generated through cold-calling
 - Developed one-page **final report** of the online campaigns executed by the firm

Result: Was part of a team that raised a revenue of over **2.5 million** Rupees
Was **awarded bonus stipend** that was promised on extraordinary performance
- **Management Trainee | iB Hubs** [December'16]
PAN India Startup Hub which has already acquired a space of 1,50,000+ sq.ft.
 - Studied **basic corporate finance** concepts and prepared a concise report for entrepreneurs
 - Designed an **abstract model** to scale up an NGO (Make the world wonderful) across the complete country.
 - Attended a workshop on **Business model canvas** (BCM).

LEADERSHIP AND ORGANISATIONAL SKILLS

- **Coordinator | Mood Indigo 2016** [April'16-Dec'16]
Asia's largest college cultural festival; 131,000 footfall with over 210 events
 - **Media and Publicity:** Negotiated deals with Photographers and media houses for promotion of Multi-City events.
 - * Developed press releases and jingles of Mood Indigo events for leading newspapers and radio stations respectively as a part of publicity campaign.
 - * Was part of a team that conducted publicity events in 60 different colleges in Mumbai.
 - **Horizons | Humor Fest'16:** Coordinated with leading standup comedians and negotiated with them to minimize their professional fee.
 - * Organized 4 standup comedy shows in venues with capacity varying from 600 to 3000.
 - * Lead a group of 20 organizers who were responsible for various activities in Humor Fest.
- **Coordinator - Media | E-Cell, IIT Bombay** [April'16-Jan'17]
The Entrepreneurship Cell of IIT Bombay
 - Coordinated with title sponsors of E-summit in carrying operations pertaining to that deal
 - Researched and wrote article on fashion startups in India, which was published in EnSpace magazine that is distributed to over 1500 undergraduate and postgraduate freshman of IIT
 - Wrote 2 articles on EnSpace blog which got over 75,000 views in total
- **Literary Arts Secretary | Hostel 2, IIT Bombay** [April'16-Jan'17]
 - Monitored hostel representation in Institute level literary competitions and achieved increment in participation of hostel these cultural events
 - Responsible for maintenance and renovation of hostel library which consists over 200 books

SCHOLASTIC ACHIEVEMENTS

- Secured **Top 1 percentile** score in JEE Mains among **1.3 million** students [15']
- Secured a Rank within **Top 1 percent (out of 0.4 million) students** in Telangana EAMCET [15']

STRENGTHS

- Good Estimating and Analysing Skills; Tolerance: Stress tolerance, Flexibility and Adaptability

RELEVANT COURSES

- **Theory:** Foundation of VLSI CAD, Digital System, Data analysis and Interpretation, Introduction to Numerical Analysis, Quantum Mechanics-II, Non-Linear Dynamics, Classical Mechanics
- **Lab:** Electronics Lab (Microprocessors), Electronics Lab(Digital Electronics), Genral Physics Lab