



EDUCATION & SCHOLASTIC ACHIEVEMENTS

Programme	Institution	%/CGPA	Year of Completion
B.Tech.(Hons.) Mechanical Engineering Minor: Mathematics for Computer Science	Indian Institute of Technology, Madras	9.0/10.0	2018
XII (B.I.E., Andhra Pradesh)	Mahathi Junior College	96.7%	2014
X (C.B.S.E.)	Delhi Public School, Visakhapatnam	10.0/10.0	2012
Scholastic Achievements	<ul style="list-style-type: none">Currently 26 credits (~1 semester) ahead of the curriculum for B.Tech Mechanical Engineering.GPA of 9.71 on Math electives. GPA of 9 on Statistical Learning Theory electives.Secured a branch change (top 30 of over 800 students) for strong academic performance.Ranked 9 on West Bengal JEE (Top 0.006% of 120000 applicants) in 2014. The only non-native of the state in top 10. Awarded Letter of appreciation from the chief minister.Awarded KVPY Fellowship in 2012, by the Department of Science and Technology, GoI.Placed in top 4% in the Indian National Olympiad in Informatics (INOI), 2011.		
Relevant Courses	<ul style="list-style-type: none">Machine LearningReinforcement LearningFundamental and Advanced Operations ResearchDeep LearningApplied Time Series AnalysisComplex Network Analysis		
Skills	<ul style="list-style-type: none">Programming Languages: Python, C, R, MATLAB (>2000 lines in each)Frameworks: Tensorflow, PyTorch, Scikit-learn, Excel (<i>Extremely Proficient in all</i>)		

PROFESSIONAL EXPERIENCE

Summer Analyst Goldman Sachs May-Jul 2017	<ul style="list-style-type: none">Replaced the existing frameworks for risk predictions in certain financial instruments by a far more robust framework (a 500% increase in terms of the performance metrics considered).Employed machine learning and time series analysis to improve prediction accuracies of the model.Also delivered a theoretical study on the reasons for failure of several other alternative approaches.
Internship TITAN Company May-Jul 2016	<ul style="list-style-type: none">Designed a cost effective (~10% cost reduction) manufacturing process for forming of sheet gold.Created the first literature survey on non-conventional forming for soft metals in the company.A prototype manufacturing unit based on the designed process was set up in the factory at Hosur.

TECHNICAL PROJECTS & PUBLICATIONS

Multitask in Deep Reinforcement Learning Jan-May 2017	<ul style="list-style-type: none">The work was presented at a workshop at International Conference on Machine Learning (ICML). The paper is also under review as a poster at Neural Information Processing Systems(NIPS).Developed a new framework for training multitasking agents. The new agents could learn upto 21 tasks simultaneously. The earlier best known result was on 10 tasks (110% improvement).
Inverted Pendulum Bot Jan-May 2016	<ul style="list-style-type: none">Designed an Inverted Pendulum Bot using Arduino for the course on Instrumentation and Control.Among the best 3 bots out of 40 which balanced indefinitely in the presence of small disturbances.The bot was kept by the professor as a model bot for the upcoming batches.
B.Tech. Project Ongoing	<ul style="list-style-type: none">Primarily working on Few Shot Learning in Deep Reinforcement Learning.As a side-project, also trying to improve performance of Visual Q&A agents using Deep Learning.

POSITIONS OF RESPONSIBILITY

Manager, Career Development Team, International and Alumni Affairs, IIT Madras 2015-2016

- Witnessed **67.5% increase(80 to 134)** in student participation by restructuring **Mentor for Interns** (networking event for students and alumni) in 4 cities – Mumbai, Delhi, Bangalore, Chennai.
- Organized the **first** of its kind: “**Career Development Lectures**” targeting **8000+ students** across all disciplines.
- Executed **Mock GDs and Mock Interview Sessions** for final year students with the help of Alumni across various sectors.

Undergraduate Teaching Assistant, Linear Algebra for Engineers, IIT Madras Jul-Nov 2016

- Worked as a **Teaching Assistant** under Dr. Arindama Singh for the Linear Algebra (MA2031) course for **~200 students**.
- Primary responsibilities involved conducting weekly tutorial sessions for students and setting assignments for the course.

EXTRA CURRICULAR ACTIVITIES

Mentoring	<ul style="list-style-type: none">Saathi Mentor: Mentored 8 freshmen, providing holistic guidance and assisting settling into campus.MITr Academic Buddy: Mentored 2 freshmen; Saw a rise in their scores by 30% over 3 months.		
Social	Mentor Coordinator, Avanti Fellows: 2016-2017 <ul style="list-style-type: none">Led and managed a team of 3 mentors for helping 5 underprivileged students prepare for JEE.2 of the mentees joining IITs. 2 others were able to secure a seat at NITs.		
	Project Representative, National Service Scheme, IIT Madras: 2015-2016 <ul style="list-style-type: none">Led and mentored a team of 16 for the National Service Scheme Project Education via Blogging.Created ~100 articles over the year: 40% increase in the number of articles; 70% increase in views.		
Technical Competitions	<ul style="list-style-type: none">Placed 1st among 200 teams at Shastra JARVIS (Machine Learning Contest), 2017.		
Interests	Playing Violin	Studying Linguistics	Reading Fiction
			Debating/GDs