EDUCATION

Examination	Year	University/Board	%Marks/CGPA
B.Tech (CSE, IIT Kanpur)	2012-2016	IIT Kanpur	7.6
12th(Sr. Secondary, AISSCE)	2012	CBSE	93%
10th (Secondary, AISSE)	2010	CBSE	9.6 / 10

SCHOLASTIC ACHIEVEMENTS

- Achieved ALL INDIA RANK 99 in IIT-JEE 2012
- Secured AIR 175 in KVPY scholarship exam (2012)

SUMMER INTERSHIPS

Summer Analyst, GOLDMAN SACHS

Minimized Risk-weighted Assets (RWAs) for the company by making the allocation optimizer aware about it • Enhanced the internal engine which recommends collateral allocation to secured funding trades to account for

- trade-offs between liquidity considerations (maximizing liquidity) and capital considerations (RWAs)
- Quantified the cost savings for the firm if the collateral was allocated to the trades based on the enhanced engine. Skills Earned: Scalable programming in functional languages, Introductory knowledge in Finance

Backend Developer, Pariksha.Co (Educational Startup focused on Adaptive learning)

- Apr-Jul'14 • Project Chameleon: Thoroughly studied the development, pros and cons of the mastery-based adaptive learning model of Khan Academy and implemented an algorithm apt for the preparation for competitive examinations (Skills Earned:- CakePHP, PHP, MySQL, Git, OOPS)
- Gamification (Integration with Backend): Integrated the adaptive backend model with the Gamified user interface using AJAX and self-created APIs in CakePHP and JS (Skills Earned:- HTML+CSS, JQuery, AJAX
- Database Designing: Made architectural changes in database to extend the functionality of platform so that each user can prepare for multiple competitive exams (Skills earned: Database Architecture Proficiency)
- Sales and Product Pitching: Convinced 97 of 120 students to join the SaaS based platform

UNDER-GRADUATE PROJECT

VISUAL MOTION PLANNING OF ROBOTS IN 3D* — Prof. Amitabha Mukherjee (CSE, IIT Kanpur) Aug-Nov'15 Working on extending a project on visual motion planning of multiple robots in 2D to 3D. Motion planning is done using large scale manifold technique. V-rep software and API is used for 3D modelling and manifold generation.

ACADEMIC PROJECTS

- DEMAND PREDICTOR FOR RENTING BIKES Jan-Apr'15 Experimented with regression and classification models in R for predicting the bike renting demand, according to the problem statement on Kaggle, in a group of 4 under Prof. Harish Karnick (CSE, IIT Kanpur). Implementation included: • Feature selection • 3-component mixture model • SVM • Poisson Regression
- K-nearest neighbours Random Forest Gradient Boosted Regression and Classification Trees • PERL TO X86 CROSS-COMPILER ON PYTHON Jan-Apr'15 Generated an cross-compiler of Perl scripting language to x86 assembly language in Python, using Lex and Yacc tools of PLY python library, in a team of 3 (synchronized on Github) under Prof. Subhajit Roy (CSE, IIT Kanpur)
- COURSE MANAGEMENT SYSTEM Oct-Nov'14 Developed a secure course management website for academic institutions for conducting quizzes & assignments online with automatic grade evaluation, in a team of 6 under Prof. Arnab Bhattacharya (CSE, IIT Kanpur)
- CAR SIMULATOR GAME IN C++ USING OpenGL Aug-Nov'14 Created a car simulator in using OpenGL library in C++, under Prof. Vinay Namboodiri (CSE, IIT Kanpur). Implemented features include imported .3ds objects, Blinn-Phong lighting, textures, camera navigation & HUD

- Secured AIR 29 in ResoSTaRT'12 (81K participants)
- Received Top 1% certificate in IPhO 2011.

May-Jul'15

• DOM-JUDGE FOR ONLINE PROGRAMMING CONTEST

Made an online programming contest website, under ACA (Association of Computing Activities), CSE, IIT Kanpur. Added certain features to the website like making a portal for queries with the judge, enhancing the presentation of the webpage, adding a clock and to synchronize it according to user position, etc.

Jan-Mar'13

COMPUTER SKILLS

Programming: C, C++, Python, Git, Gnu-Plot, Octave, JavaScript (& JQuery) + AJAX, MySQL, MongoDB **Markup & Scripting:** LATEX & Beamer, PHP+HTML+CSS, Bash, Perl

Functional Languages: Oz/Mozart, Scala, SLang (GS internal)

Hardware Description Languages: MIPS & x86(assembly language), Blue Spec Verilog (BSV) machine language **Programming paradigms:** Parallel Programming, Object Oriented Programming, Functional Programming

RELEVENT COURSES

Computer Science: Natural Language Processing • Machine Learning Techniques • Algorithmic Game Theory
Principles of Programming Languages • Compiler Design • Theory of Computation • Principles of
Database Systems • Operating Systems • Computer Organisation • Computer Graphics
Mathematics: Probability and Statistics • Logic in Computer Science • Modal Logic

Humanities & Social Sciences: Introduction to Psychology • Psychology of Organization • Human Rights **Foreign Languages:** German Level-I

POSITIONS OF RESPONSIBILITY

- **Techkriti'15:** Coordinator, Software Corner. Had complete responsibility of the event Chaos (esoteric language coding competition), which was conducted smoothly on March 13, 2015:
 - 1. Designed problem statements apt according to the difficulty level of the esoteric language and the time-limit
 - 2. Decided test cases which test the correctness and robustness of the solution
 - Participants appreciated the contest and the winners were given cash prizes worth ₹ 30,000
- **Summer Sports camp'13:** Captain, Football team. As the leader of 15 players in the football camp:
 - 1. Coordinated with the Games & Sports Council and other sports teams, for facilities & equipment
 - 2. Assisted Football coach in improvement of trainee performance by off-field motivation and in-match guidance

EXTRA-CURRICULAR ACHIEVEMENTS

Group Dance:

- Mood Indigo'13: Meet the street-Semi-finalist Kahani thodi filmy hai-Finalists
- Antaragni'13: Tour-de-Force-2nd-position Jitterbug-3rd-position
- Mood Indigo'12: Picture abhi baki hai-Finalists
- Antaragni'12: Tour-de-force-3rd position

Football:

• Udghosh'13: Football–Silver-medallist team • Sportech'13 (IIT Delhi): Football–2nd position Karate, Shodan Ho: Black-belt