



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2018	M.TECH Dual Degree 5Y	IIT Kharagpur	8.04 / 10
2013	Maharashtra State Board HSC	Thakur Vidya Mandir Junior College	88.17%
2011	ICSE	Ryan International School Goregaon	92%

COURSEWORK INFORMATION

Data Structures and Algorithms | Object Oriented System Design | Cryptography | Data Analytics | Digital Image Processing | Internet Architectures and Protocols | Machine Intelligence and Expert Systems | Pattern Recognition & Image Understanding | Computer Communication and Networking

INTERSHIPS

AMAZON INDIA	Account Auditing for 3P sellers	May-July 2017
<ul style="list-style-type: none">Designed and implemented an account auditing infrastructure for third-party sellers on Amazon's Seller Central platformImplemented a daemon to periodically create and deprecate DynamoDB tables for time-series data to ensure optimal performanceWrote an unblocking API client that allow other teams to publish audit records to the central API		
AMAZON INDIA	Bulk SMS campaigns for MoA accounts	May-July 2016
<ul style="list-style-type: none">Created an interface for the business teams to schedule bulk SMS marketing campaignsImplemented a multi-threaded program to simultaneously dispatch requests to other internal servicesDeployed the interface using AWS services to invoke the program at regular intervals		
AASAANJOBS	End-to-end testing framework	June-July 2015
<ul style="list-style-type: none">Designed and implemented a complete end-to-end testing framework on Selenium for aasaanjobs.comThe framework was deployed to the organization's stack to reduce testing time by a factor of 10		

PROJECTS

PORTING AMY FOR PYDATA	May-July 2016
<ul style="list-style-type: none">Implemented a RESTful API over PyData conference websites with endpoints for talks, participants and sponsorsDesigned and implemented an import wizard within web project AMY that fetched participants, talks and sponsors from the REST APIAdded a pluggable Django app to AMY that extends the sponsorship and import functionality adhering to PyData's requirements	
DYNAMIC BANDWIDTH ALLOCATION IN EPONS	2016-17
<ul style="list-style-type: none">Simulated a 16 ONU TDM EPON network in OMNET++ with varying credit schemes under self-similar Pareto-distributed trafficAchieved a maximum link utilization of over 98% with IPACT algorithm under varying credit schemes	
MULTISCALE EDGE-BASED TEXT DETECTION FROM COMPLEX IMAGES	April 2017
<ul style="list-style-type: none">Detected text regions out of complex images using the edge densities, strength and variance of orientationsUtilized Tesseract, the standard text processor, to extract characters from the probability density map.	
IMPOSTOR DETECTION USING KEYSTROKE DYNAMICS	Nov 2016
<ul style="list-style-type: none">Designed and developed a live impostor detector that detects an impostor based on the keyboard dynamics of the user inputTrained Naive Bayes classifier on keyboard latency data from a group of 8 people over a period of 3 months to achieve 88% accuracy	
ANOMALY DETECTION IN REAL-TIME SURVEILLANCE VIDEOS	April 2017
<ul style="list-style-type: none">Achieved real-time object detection and classification using a multi-layered CNN trained on nVidia GTX GPUsDetermined anomalies in pedestrian and traffic by detecting sparsity in optical flow	

AWARDS AND ACHIEVEMENTS

- Secured Maharashtra state top 1 percentile in National Standard Examination in Physics, 2012-13
- Secured national top 1 percentile in National Standard Examination in Chemistry 2012-13
- Secured an All India rank of 28 in Unified Cyber Olympiad, 2008

POSITIONS OF RESPONSIBILITY

GOVERNOR - TECHNOLOGY ROBOTIX SOCIETY	2016-17
<ul style="list-style-type: none">Led a team of 30 robotics enthusiasts in conceptualizing Robotix 2015, India's biggest college robotics fest with over 2,000 yearly footfallsConceptualized and designed the online coding event Sudocode. Implemented an online code judge that accepted over 100 submissions	
PROJECT MAINTAINER - SOFTWARE CARPENTRY	May 2016 - Present
<ul style="list-style-type: none">Co-responsible for maintaining and upgrading the project AMY - web application used by this world-wide training organization to manage all their 1,000 workshops and 25,000 learnersContributed over 80,000 lines of codes across 120+ commits over the past year	

SKILLS AND EXPERTISE

Programming Languages: Python, Java, C++, JavaScript, SQL, Ruby, ASM, Matlab
Software Frameworks : Django, Spring, NodeJS, Omnet++, Git, Robot Operating System, Selenium
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