## Srinivas Reddy M August 17, 1995

UG (3rd year), Computer Science and Engineering Indian Institute of Technology Kharagpur

Education	
Indian Institute of Technology Kharagpur	West Bengal, India
Bachelor degree in Computer Science & Engineering	2012 – 2017 (expected)
Focussed mainly on Machine Learning, Crytography.	GPA: 7.64/10.00
SR Educational Academy	2010 - 2012
Intermediate Education (pre-university secondary education)	94.5 %
Adarsha High School	1999 – 2010
SSC (Secondary Schooling)	92.5 %

## Projects

Projects				
Machine Learning	Climatic Analysis			
Cyclone track-intensity Prediction	<i>Apr</i> '14 – <i>Apr</i> '15			
Identifying features and ordered temporal motifs from multi-dimensional temporal streams of meteo-				
rological data related to the tropical cyclones, predicting cyclone Intensity and path.				
<b>Models:</b> Decision trees, Kalman filters, Genetic Algorithms, Regression, SVM, Artificial Neural Nets and Recurrent Neural Nets.				
Guide: Dr. Sudeshna Sarkar , IIT Kharagpur.	Techs Used: R, Matlab.			
Rainfall Variation over India	May '14 – Apr '15			
Finding patterns in temporally and spatially distributed of rainfall data. Account for the climatic changes like loss of mangroove forest cover, changes in temperature, rainfall amount and distribution <b>Models:</b> Genetic Algorithms, Regression, SVM, Artificial Neural Nets.				
Guide: Dr. Pabitra Mitra , IIT Kharagpur.	Techs Used: R, Matlab.			
Cryptography	Cryptanalysis			
Parallelising Coppersmith's discrete log algorithm	Apr '15 –Present			
Implementing Gordon And McCurley's Polynomial Sieving effic				
the discrete log problem effeciently. As all the public key crypto systems are based on computational				
infeasibility of discrete log problem work on this area is bound t <b>Models:</b> Gordon And McCurley's Polynomial Sieving.	o be crucial and promising.			
Guide: Dr. Abhijit Das , IIT Kharagpur.	Techs Used: C, CUDA.			
Information Retrieval	Retrieval Models			
Optimised Information Storage and Retrieval	Mar '14 – Jun '14			
Implemented IR models for a machine local search engine to sea				
Conference) Documents. Compared and Evaluated various methods using TREC Queries, ranked in				
terms of mean average precision values.				
Models: Boolean Model, Vector Space Model, Probabilistic rel	evance model on which is based the			
okapi (BM25) relevance function, Language Model.				
Guide: Dr. Pawan Goyal, IIT Kharagpur.	Techs Used: Java, Apache-Leucene.			
Academic Projects	Part of Academic curricula			
Automated software for a motor part Store	Mar '14 – Jun '14			
Inventory management using just-in-time (JIT) philosophy , Data				
on future requirements , monthly sales, feedback and managing <b>Guide:</b> Dr. Partha Pratim Das, IIT Kharagpur.	<b>Techs Used:</b> Java, MySQL.			
	August '15 – Nov'15			
Synthesis of 32-bit processor on FPGA Designed a MIPS like ISA and used it to synthesize a 32-bit proce	0			
using a hardware stack was also provided.	soor on the Grassupport for factorision			
Guide: Dr. Ajit Pal, IIT Kharagpur.	Techs Used: Xilinx.			
Tiny C Compiler	August '15 – Nov'15			
Considering a subset of gnu functionalities this compiler can gen	ē			
C program as input.	-			
<b>Guide:</b> Dr. Partha Pratim Das, IIT Kharagpur.	Techs Used: Flex, Bison.			
Please refer to my Webpage for the complete list of work experiences along with recommendations.				

## **Techinical Skills**

Advanced:	C, C++, Java, Python.
Intermediate:	CUDA, Matlab.
Basic:	JavaScript, HTML5, CSS3.
Platforms:	Linux, Solaris and Windows.

Scholastic Achievements and Position of Responsibility	
<b>Rank of Cadet Sergeant:</b> Awarded by 3(B) Tech air SQN NCC, India for utmost Sincerity, Discipline, and Dedication. It is Awarded as Recognition for Leadership Qualities of an individual.	2014
<b>IIT Joint Entrance Examination (IITJEE):</b> All India Rank - 638 in General category among half a million candidates.	2012
Best Outgoing Student: Best Student Award at Adarsha High School, Warangal for Best in Character, Academics and Leader	2010 ship.

## Scholastic Achievements and Position of Responsibility

•	Second Senate Member at Lal Bahadur Shastry Hall of Residence, IIT Kharagpur.	2015 – Present
•	Squadron Senior man at 3(B) Tech Air SQN NCC, India.	2012 - 2014
•	C-certificate holder in National Cadet Corps, India.	2014
•	Diploma in Computer Applications from Mind soft Institutions.	2010