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Recommendation Systems Jan 2014 - May 2014

- Recommendation System for recommending singers , bands and songs to users .
- Used *Pearson Coefficient* , *Slope One recommendation* , *Minkowski distance* and *Deviation Method* for implementing the same .

Bingo Shell

Nov 2012 - Jan 2013

- A GUI shell which makes Unix more user friendly .
- It has features like Automated Email Sending , Weather API , Music Player Integration etc.

Project X

March 2013 - May 2013

- An Open Source 3D racing game
- It has features like Model and Texture Loading , Skybox, Fogging Effect , Wall Detection , Dynamic Level Loading etc.

AlphaPy

Oct 2013 - Dec 2013

- A python PyGTK based text editor
- It has features like text to speech Integration, compiler integration ,Online storage in Google Drive and Auto exporting to HTML and RTF format

SQL Parser

Aug 2013 - Dec 2013

- Implemented Basic Relational Algebra Functions and Aggregate functions
- Storing Data through serializing in Dictionary for fast lookup time

AWARDS

Competitive Programming

- Ranked **3rd** among Indian teams in [IEEE Xtreme-7.0](#)
- Qualified for both [ACM ICPC Amritapuri regionals](#) and [ACM ICPC Kharagpur regionals](#). My team ranked **24th** in ACM ICPC onsite regionals .
- Solved 250+ problems in Spoj . Handle : [tusharmakkar08](#)
- Solved 125+ problems on Codechef . Handle: [tusharmakkar08](#)
- Rated Blue on codeforces . Handle : [tusharmakkar08](#)
- Ranked **33** among Indian teams in [IEEE Xtreme-6.0](#)

Haryana Pratibha Samman Award

- Recieved Haryana Pratibha Samman Award from Chief Minister of Haryana for securing **AIR - 3** in High School Examination

Performance in Olympiads

- **AIR - 1** in Holy Faith's National Talent Search Exam - 2009 . Recieved award from Education Minister of Haryana.
- **AIR - 21** in National Science Olympiad - 2009
- **AIR - 215** in National Science Talent Search Examination - 2009
- **All World Rank 247** in International Maths Olympiad (I.M.O) - 2011
- Qualified NTSE Level - 1 in 2009

IIT JEE and AIEEE

- Amongst the Top-0.01% (AIR - 6094) in IIT JEE 2011 and Top-0.003% (AIR - 3076) in AIEEE 2011

Merit Certificate

- Received Merit Certificate from Director for being in Top-0.1% in Class

EXTRA-CURRICULAR ACTIVITIES

- *Microsoft Student Partner*
- *Convenor of Web Enthusiasts Club*, an elite group of Computer Enthusiasts at NITK.
- *Joint Head of NITK Codechef Campus Chapter*, a group focussed on promoting competitive programming in NITK.
- *Joint Convenor of Computer Committee in Engineer 2014* the technical fest of NITK.
- *An active Open Source Contributor* , [Open Source Report Card](#).
- *Executive Member NITK IEEE Student Branch*, Bangalore Section.
- *Executive Member Amateur Astronomers Club (previously SGC) NITK* , Amateur Astrophysicist and Astronomers club .
- *Worked in Engineer 2012 and 2013* the technical fest of NITK as a member of Comps Committee.
- *Webcasting Volunteer for Election Commission of India* in the Dakshina Kannada Parliamentary Constituency for the General Election to Lok Sabha - 2014.