AADESH

Skills: C/C++, Python, Julia, Unix/Linux, SQL, Shell Script, Verilog, Git.

Languages: English, Hindi, Marathi.

EXPERIENCE

<u>Julia Season of Contribution</u>(JSoC) (language Julia)

May 2019 - Aug 2019

(Code of Conduct same as Google Summer of Code) (Tasks complete till now)

- Implemented <u>Range over-approximation algorithm</u> which improves Range bounds By 70-95% using TaylorModel to Zonotope conversion.
- Developed <u>RangeEnclosures.il</u> a Julia Package which bounds polynomials using various methods, which was initiated by my <u>PR</u> to TaylorModels.jl.
- Implemented <u>Branch and Bound(BNB)</u> and Linearly dominated Bound(LDB) algorithm. BNB can minimise relative precision up to 50% and achieve relative precision [1e-5, 1e-5] in most of the cases. Debugged porting validated_int in TMJets.
- Created Proof of Concept for "Domain Contraction Methods" using Interval Constraint Programming.

National Institute of Technology, Tichy—Research Intern (Python, NLTK) Nov 2018 - Jan 2019

- Taught myself Python and Pandas, NLTK, sci-kit learn.
- Implemented naive Bayes classification, over text news from different sources.
- Analysed data by plotting graphs on Ipython cleaned data to feed in ML algorithms.

LEADERSHIP ROLE AND SCHOLASTIC ACHIEVEMENT

- 7th in regional (Scholarship) <u>HHS Exam</u> among 20,000 student.
- Directed short film, managed a team of six, fixed spots to shoot and set workflow(timeline) such that everyone can contribute with maximum efforts. (Reel Club)

EDUCATION

Indian Institute of Information and Technology, Trichy

July 2017 - May 2021

Computer Science and Engineering CGPA - 7.75 (Current GPA - 8.09)

Key Courses -

Software Engineering, Internetworking Protocols(Socket Programming C and Java), Database Management Systems(SQL, XML), Computer Architecture – Current Courses. Data structures($C \cdot C + Lab$), Introduction to Algorithms($C \cdot C + Lab$), Probability Theory, Principles of Operational Research, Operating Systems(Unix\Linux Lab), Data Communications and Networking – completed courses.

Other activities - 2nd place in Volleyball at Prothymas(IIIT Sports events), swimming.

Narayana Junior College (High school)

Percentage -94%