# Sai Praveen Mylavarapu

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## EDUCATION

- **PSG College of Technology**                                            Coimbatore, India
  *Integrated M.Sc, Theoretical Computer Science; CGPA: 8.12/10*            *June 2015 - May 2020*

## TECHNICAL SKILLS

Python, Java, C++, JavaScript, SQL, Docker, Kubernetes, Hadoop, Spark, TensorFlow, AngularJS, Flask, Jenkins, MongoDB, Heroku, Terraform

## EXPERIENCE

- **Goldman Sachs**                                                         Bengaluru, India
  *Software Engineer*                                                       *June 2020 - Present*
  - Working on development and infrastructure of automated tooling to migrate thousands of software projects across the firm from a legacy SDLC stack to the latest CI/CD stack, saving thousands of hours of developers' time.

- **Goldman Sachs**                                                         Bengaluru, India
  *Software Engineering Intern*                                             *January 2020 - June 2020*
  - Worked on software supply chain component analysis to identify and reduce risk to the firm from the usage of third-party and open-source libraries. Developed an automated SBoM generation service to track dependencies of all the software projects across the firm.

- **L3S Research Center**                                                   Hannover, Germany
  *Visiting Researcher*                                                     *November 2019 - December 2019*
  - Worked as a research assistant under Prof. Avishek Anand on scaling of Graph Neural Networks.
  - Worked on reducing training time of Graph convolutional networks (GCNs) by exploiting the properties of graphs like graph clustering structure while ensuring good accuracy and memory consumption.

- **Goldman Sachs**                                                         Bengaluru, India
  *Software Engineering Intern*                                             *May 2018 - October 2018*
  - Developed and released a product to monitor breaches in the SLOs of firm wide applications during their runtime.
  - Used Spark structured streaming for streaming the real time telemetry of applications and is compared it with their SLOs with windowing over time intervals.
  - Built a data pipeline to make the telemetry of applications accessible for detecting SLO breaches.
  - Developed a feature to automate dashboard generation for telemetry of the applications.

## PROJECTS

- **Rubik's cube solver** An Arduino robot that solves Rubik's cube mechanically, using Kociemba's algorithm. Stepper and servo motors execute the steps of the algorithm progressively.
- **IDK my friends** An application that surprises the users by finding unknown friendship relations in their friends circle. People with relations across communities are found by forming disjoint communities using Girvan-Newman algorithm. Implemented in Python using networkx and matplotlib libraries.
- **Chocolatier** A chocolate business simulation game where the player uses strategies to improve his business by buying raw materials, manufacturing chocolates, and selling those for higher profits. The game terminates when he runs out of money to continue his business. Implemented using object-oriented programming concepts in C++.
- **KuDoSu** A Sudoku solver program in Python that models the game as a vertex coloring problem where the numbers and boxes are mapped to colors and nodes respectively.

## PUBLICATIONS

- ***Mylavarapu S.P.***, Govindarajan S. IDK My Friends: Link Analysis on Social Networks to Mine Surprise Connections. In: Computational Intelligence, Cyber Security and Computational Models. Models and Techniques for Intelligent Systems and Automation. ICC3 2019. CCIS, vol 1213. Springer, Singapore.

## ACCOMPLISHMENTS

- Selected for SoBigData.eu funded Transnational Access programme to carry out a research project at L3S Research Center, Hannover, 2019.
- Secured 10th, 12th, and 23rd positions in PSG Tech Math Olympiad 2016, 2017, and 2018.