

# Himanshu Goyal

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## EDUCATION

**B.Tech. in Computer Science and Engineering**  
IIT GUWAHATI

7.45/10 | May 2016

## WORK EXPERIENCE

### MEDO-CRACY | Co-FOUNDER

Bengaluru | Aug 2021 - Dec 2021

- Designed and developed a mobile app to be used for setting up reminders in third party devices. This app could be used to set up reminders for doctor appointments, medicines, meals etc in third party devices as a care giving solution. Designed flow of the app and its features keeping easier user acceptance in mind. Back-end of the app was built using GCP and front-end using Flutter.

### GOLDMAN SACHS | RISK ENGINEERING

Bengaluru | Sep 2017 - Jun 2021

- Worked with Core Engineering team to build a pipeline to analyse risks associated with discontinuation of Libor rates from the financial markets. Led the project group to get the contractual data, understand its relationship with market risk world and eventually provide a platform to analyse market risk associated with discontinuation of libor rates by different counter-parties.
- In the market risk org, client accounts were maintained in a tree like data structure for risk management. Developed and owned an intelligent way of mapping client accounts into the portfolio tree. Used clustering algorithm based on weighted features of the client accounts.
- Built a platform to analyse Regulatory risk metrics for interest rate derivatives. Involved data ingestion in a hierarchical format based on different mathematical rules.
- Built a pipeline to analyse Credit Risk for regulatory reporting. Designed a dashboard for data visualization and generating alerts for credit risky counter parties.

### SAMSUNG R&D INSTITUTE | SOFTWARE ENGINEER

Delhi | Jul 2016 - Aug 2017

- Worked on Smart Traffic Control using special Recurrent Neural Networks i.e. Long Short Term Memory (LSTM) Networks. The application of the above framework is to predict the bandwidth available by learning the time-series network usage pattern of Smart TV users and thus develop an efficient scheduler for sending the OTN (Over the network) software updates.

### AMAZON | SOFTWARE ENGINEER INTERN

Bengaluru | May 2015 - Jul 2015

- Worked on Big Data to judge the User Channel for coming with the right marketing strategy. This involved writing PIG scripts.
- Worked on a web view to show the output using Ruby On Rails.

## PROJECTS

### ACTPRO - AN ACTIVITY MONITOR

JAVASCRIPT, DART, GCP | JAN 2022 - MAY 2022

Created a product to monitor the users' activity and store its data on GCP for a private firm. Also, created an access controlled web view using flutter to display the user activity data in a very simple and crude way.

### PREDICTION OF TAGS FOR STACK OVERFLOW POSTS

PYTHON

Involved tag prediction using Logistic Regression on features like Post Title, Post Body, PMI values of Body and Title.

### PREDICT AIR POLLUTANTS IN NEXT 24 HOURS

PYTHON

Involved multivariate time series analysis. Obtained missing features using ARIMA Model. Supervised Classifiers like Random Forest Regression and SVM were used to make the predictions.

## SKILLS

**Languages:** Java, C++, Slang, Python, SQL

**Web Development:** Ruby on Rails, JavaScript

**Technology:** Git,  $\LaTeX$ , Spring Boot, Apache Cassandra, Flutter, Apache Spark

**Project Management:** JIRA, Trello, Memos