

JOGI MIGLANI

ACADEMIC PROFILE

Degree/Certificate		Institution					Percentage/CGPA		Year
IDD		Mathematical Sciences IIT (BHU), Varanasi					9.32		2022
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII	Sem IX	Sem X
9.48	9.00	9.40	9.00	9.56	9.44	-	-	-	-
Punjab School Education Board (XII)		Asra College Of Engineering And Technology, Channo					78.22		2017
Central Board of Secondary Education (X)		Dayanand Public School, Nabha Distt Patiala					91.20		2015

SKILLS

Programming Languages | C/C++, Python, Kotlin, Java(Basic)

Tools & Technologies | Git, VIM, Bash Scripting, Anaconda, Google Firebase, Android Studio, Android SDK

Area Of Interests | Open Source, Software Development, Quantitative Finance, Graph Theory, Machine Learning, Deep Learning(AI)

INTERNSHIP/TRAINING

Google Summer Of Code, 2019

May'19 - July'19

Organization: SymPy | Guided By: Shekhar Rajak, Yathartha Joshi, Amit Kumar

- Designed and implemented all routines with clean code for a new solver named **_solve_modular** for solving modular equations.
- Debugged and fixed lambert bivariate equation solver to return all real solutions.
- Worked on defining **ImageSet Union** i.e to define a unifying algorithm for linear relations.

Exposure: Python, Git, Bash Scripting, VIM, Anaconda, Travis CI, Codecov

PROJECTS

CHECK IN | Android Developer Intern

Aug'18 - Oct'18

Reservefree Pvt. Ltd. | Tech Food Company

- Implemented real-time push notifications system in android application using Google Firebase .
- Implemented MVVM (Model-View-ViewModel) architecture for user profile activity.
- Added functionality of updating profile picture chosen from the device along with cropping feature.

Exposure: Android Studio, Git, Java, Kotlin, MVVM Architecture, Google Firebase, Android SDK

WORLDQUANT | Research Consultant

March'19 - Oct'19

Worldquant Research(India) Private Limited | Virtual Research Consultant

- Generated high-quality trading signals (alphas) through WebSim research platform to employ trading strategies based on the data and operators provided on the platform.
- Learned basic finance concepts by making different kinds of alphas in the Alpha Quality Project(AQP) hosted by the company.

Exposure: Quantitative Finance, Data Science

Stream Project: Influence Maximization On Signed Social Networks

July'19 - July'20

Guided By: Dr. Lavanya Selvaganesh, Department Of Mathematical Sciences

- Learned various diffusion models used in the problem of Influence Maximization.
- Worked on an algorithm for the problem of positive influence maximization in signed social networks (PIM-SN) using an independent cascade diffusion model.

Exposure: Graph Theory, Social Networks, Research Work, Mathematical Modelling

Exploratory Project: Diabetic Retinopathy Detection

July'18 - Nov'18

Guided By: Dr.Sunil Kumar, Department Of Mathematical Sciences

- Build a deep learning model to predict diabetes through retina images using image processing, feature extraction and supervised learning.
- Used pre-trained Inception V3 Model developed by Google as a base and retrained with some modified final layers.

Exposure: Python, Image Processing, Deep Learning, Anaconda

Operating System | Shell Implementation

Mar'19 - Apr'19

Guided By: Dr. Bhaskar Biswas, Department of Computer Sciences

- Implemented a shell in C language consisting of basic functionalities.
- Functionalities written explicitly in C are *cd*, *pwd*, *mkdir*, *rmdir*, *ls*, *ls -l*, *cp* and *exit*.

Exposure: C, Shell Scripting

Stock Market Analysis and Prediction

Apr'20 - May'20

Guided By: Dr. Pratik Chattopadhyay, Department of Computer Sciences

- Used linear regression analysis to predict the trend of the target stock by obtaining the slope of the linear regression line.
- Learned basic concepts of machine learning.

Exposure: Python, Anaconda, Machine Learning

POSITION OF RESPONSIBILITY

- Student Guide for UHV course for session 2018 - 2019
- Co-coordinator of Kashi Yatra'18, the annual cultural fest of IIT(BHU).
- Co-coordinator of Kashi Yatra'19, the annual cultural fest of IIT(BHU).

HONOURS AND ACHIEVEMENTS

- **Google Summer Of Code, 2020 Mentor** in SymPy organization of project *Improving and Extending Stats Module*.
- **Google Summer Of Code, 2020 Mentor** in SymPy organization of project *Enhancement Of Number Theory Module*.
- Placed among top 10% of the centre in National Standard Examination In Junior Science 2013-2014 held by Indian Association Of Physics Teachers.
- Achieved maximum rating of **1740** on Codeforces.
- Secured a Global Rank **382** in **June Lunchtime 2020 Div. 2** on Codechef.
- Placed 1st along with cash prize in *Protective equipment object detection - Data Science literature review (F2F) 1.0* challenge held by **TopCoder**.
- Qualified for Stage 2 of International Quant Championship, 2018 held by WORLDQUANT.
- **Academic**: Successfully changed the discipline from Electrical Engineering to Mathematics And Computing with an SGPA of 9.48 in first semester.
- Department rank 3 at the department of Mathematical Sciences.
- 1st position in Volleyball in Departmental Sports Meet, 2019 conducted by Mathematics And Computing Society.
- 3rd in Inter Hostel Weightlifting 2018 under 56kg category.
- Fourth Position in pixelate robotics event in Technex'17, the annual techno-management fest of IIT(BHU).
- Placed among top 10% of the centre in National Standard Examination In Physics (NSEP) 2016-2017 held by the Indian Association Of Physics Teachers.

EXTRA-CURRICULAR ACTIVITIES

- Conducted *Hello GSoC* workshop under Club Of Programmers, IIT BHU.
- Conducted COPS Algorithm Contribution Challenge on GitHub under Club Of Programmers, IIT BHU.
- Conducted Cops Contributors Namecards Challenge on GitHub under Club Of Programmers, IIT BHU.
- Participated in Google Startup Weekend in 2017-2018.
- Participated in Aavhan, sports fest of IIT Bombay in weightlifting under 56kg category.
- Participated in Hackout event in Technex'20.

T: 9914902896 **E:** jmig5776@gmail.com **Address:** Mehs Gate Dhir Colony Opposite Niassan wala Peer Nabha, Punjab - 147201