

Joel Antony Thomas

Analyst, Data Scientist

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GitHub: github.com/joel0901
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SKILLS

Tools and Languages Python, C, C++, R, SQL, MS Excel, MATLAB, Git, Flask
Areas of expertise Machine Learning, Statistics and Probability, Neural Networks, Data Structures and Object Representation, Analytics, Computer Vision, NLP, Web Scraping

TECHNICAL EXPERIENCE

PROJECT A - Hypothesis Testing and Le Cams method

Aug 2021 — Nov 2021

IIT Kharagpur

Kharagpur, West Bengal

- Learnt about Hypothesis Testing by doing a deep dive on it.
- Conceptualized approaches like p-value, critical z, Le Cam's equation, TV distance, Fano's method, etc

PROJECT B - User Authentication using Mouse Dynamics

Aug- 2021 — Nov 2021

IIT Kharagpur

Kharagpur, West Bengal

- Developed a code that can differentiate users based on the data collected over 45 days by collaborating with my teammates
- Drove the model after feature extraction using kNN classifier

PROJECT C - Offline Handwritten Character Recognition using Quantum CNN

Aug 2021 — Nov 2021

IIT Kharagpur

Kharagpur, West Bengal

- Structured a Quantum CNN model which aided in offline character recognition
- Improvement in accuracy was noted compared to a normal CNN

MISCELLANEOUS PROJECTS

Kaggle

Online

- Finding Shapes using OpenCV
- Virtual painter, Gesture volume control using MediaPipe
- Resume parsing using Spacy
- News summarisation using Gensim
- Similar movie prediction
- And others...

ROLE A - Team member of college hostel's Data Analytics team

Aug 2018 — April 2021

IIT Kharagpur

Kharagpur, West Bengal

- Participated in inter-hostel Data Analytics competitions
- Led a team that conducted teaching sessions which scaled our team's knowledge database for the juniors

ROLE B - Intern at ExamBazaar

Nov 2021 — Dec 2021

ExamBazaar

Online

- Scaled the database of startups, investors and funding events in the Indian Market.
- Coordinated with the manager to create weekly and monthly presentations of interesting startups for the Management Team.

ROLE C - Volunteering

Nov 2021

Team Everest

Online

- Created simple games as means of keeping in touch with small kids from rural and underprivileged areas.
- Designed over 20 games to help with this.

ROLE D - Teaching C++ for an NGO (Internship)

Dec 2021

TopTrove Foundation

Online

- Created course materials and taught C++ as part of an NGO

ROLE E - Intern at Appcilious

Dec 2021

Appcilious Pvt. Ltd

Online

- Learnt in-depth about Text-To-Speech(TTS) and used GANs to develop models.
- Learnt Flask to be used to create a REST API to extract data.

EDUCATION

BTech in Electronics and Electrical Communication Engineering, IIT Kharagpur

Senior Secondary, Saraswati Vidyaniketan Public School, Kochi

ACCOMPLISHES AND ACTIVITIES

Drove the basketball activities in college, and managed a budget of 32k for hostel sports activities

Avid chess player and in-charge of hostel chess activities

Proud recipient of the NTSE Fellowship

Secured a rank under 1000 in the prestigious JEE Entrance Exam

Received various awards and accolades for literary competitions