

RISHIT DAGLI

10 STD, TED-X, TED-ED SPEAKER|GOOGLE CERTIFIED MOBILE SITE DEVELOPER|INTEL AI SCHOLAR|2XGCP CHAMP|MOZILLA MUMBAI LEAD|DEEPLARNING.AI, AMBASSADOR

AI enthusiast and researcher. I have also given tech talks, conducted workshops and imparted trainings at various meets and user groups. To name a few - TensorFlow World Extended, Google Firebase Mumbai, JetBrains Kotlin Mumbai, Google Flutter Mumbai, Microsoft Global AI Boot camp, Mozilla Mumbai and many other colleges too. Apart of this I also have 12 digital badges by Google for AI and Cloud, 2 digital badges by IBM, 4 certifications and a digital badge by Microsoft, an Intel AI certification. I am also an open source contributor for many AI repositories and have also won a few international hackathons. I believe in sharing knowledge and have taught many underprivileged children too. **Digital Version- [here](#)**



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EDUCATION

ICSE (Student of 10th STD)

Thakur International School
2006 - Present

PERSONAL PROJECTS

IoT Farm (11/2018 - Present)

- 1 st prize at International Hackathon of Blockchain and IoT by IET held at Thakur College of Engineering and technology.

Design and Implementation of Safety Gear for school kids (01/2018 - 10/2018)

- Published Research paper in IJIRSET international journal with impact factor 7.089.
- 1 st prize in VJTI Technovanza.

Design and Implementation of Smart City using IOT (06/2018 - 11/2018)

- Published Research paper in IRJET international journal with impact factor 7.211

Automated Farming

- 1 st prize at Zephyr Smart Kids Award by Hindustan Times.
- It was a robot which could plough field, irrigate them, sow seeds and thresh crops.

Medicine Dispenser (01/2019 - 10/2019)

- It is an autonomous patient reminder and data storing system using NRF and IOT for data transmission.

Autonomous Water Cleaner

- 1 st prize at TIS Technovation Challenge.

Whats app mass messaging using Python (3/2019)

- In industrial use by companies - EZ Lock and Robotron Labs.

Breast Cancer Prediction using AI (08/2019 - 02/2020)

- A project to predict breast cancer accurately by the use of AI. Accuracy achieved - 99.4048 %

SKILLS



ACHIEVEMENTS

International Hackathon (12/2018)

1 st prize at International Hackathon of Blockchain and IoT by IET held at Thakur College of Engineering and technology.

Palo Alto Network Challenge

Google cloud competition

2 X GCP Quest Leader

Google cloud competition

Jr. Robocon (01/2015)

1 st place in category C. It is a theme based competition and the participants need to build an Autonomous robot to solve the task.

WRO (World Robot Olympiad) (2016).

Qualified for national round

TIS Technovation Challenge (2016)

1 st place in Technovation Challenge. It is a competition where participants have to build robot featuring the categories given.

LEGO RoboFest (2016)

1 st place in RoboFest. It is a competition in which participants have to use LEGO Mindstorms for building a robot which can complete the given task in given time frame.

[Letter of Appreciation by Thakur College of](#)

[Engineering and Technology \(2018\)](#)

Awarded Letter of Appreciation by electronics and telecommunication department of Thakur College of Engineering and Technology for training students to do projects in robotics and AI.

[National Cyber Olympiad \(2018\)](#)

International Rank : 17

[VJTI Technovanza innovation challenge \(2017\)](#)

1st place in VJTI Technovanza innovation challenge.

[National Standard Examinations in Junior Science](#)

Awarded Certificate of Merit for being placed among top 1% students all over India and selected for Indian National Junior Science Olympiad.

[Australian National Chemistry Quiz \(2017\)](#)

Award of Excellence.

[National Maths Talent Contest \(2018\)](#)

Qualified for second round.

[Ganit Prabhutva \(2018\)](#)

Selected for round 2 and awarded excellence certificate.

[Dr. Homi Bhabha Examinations \(2018-2019\)](#)

Selected and appeared for practical and theory round

[Winner: Story of Makers Tech Expo 2\(2019\)](#)

Tarun Mitra Mandal, Navneet

PUBLICATIONS

[Design and Implementation of Safety Gear for school kids](#)

Author(s) - Rishit Dagli

July, 2018

International Journal of Innovative research in Science, Engineering and Technology (IJIRSET) Volume 7 Issue 7

Child Safety Gear is a multipurpose generic device which can be used for safety of kids, patients, trekkers etc, with different modifications. It can be used to track the child and help prevent threatening fights, abuse and other such things.

[Design and Implementation of Smart City using IOT](#)

Author(s) - Rishit Dagli

October, 2018

International Research Journal of Engineering and Technology (IRJET) Volume 5 Issue 10

This paper provides a systematic approach on how the idea of Smart city can be implemented and made cost effective. By using cameras (to monitor situation), LED with varying intensity (to reduce power loss), an emergency call system (to prevent crimes) in street lamps; cost effective and low power consuming beacons (to push notifications).

[Sierpinski Fractal](#)

Author(s) - Rishit Dagli

December, 2018

Association of Mathematics Teachers India (AMTI) 53rd Annual Mathematics conference.

This paper derives some important formulas and properties for Sierpinski Fractal and points out the applications of derived results in field of robotics, computer and PCB designing.

[Age Of Zero](#)

Author(s) - Rishit Dagli

December, 2018

Association of Mathematics Teachers India (AMTI) 53rd Annual Mathematics conference.

This paper mentions about the travel of zero and shows a comprehensive description and idea about the origin of zero. It also marks the first mark of zero discovered in India.

[Design and Implementation of a Smart IoT Farm](#)

Author(s) - Rishit Dagli

April, 2018

International Research Journal of Engineering and Technology (IRJET)

Volume 6 Issue 4.

This paper gives a systemic approach on developing a smart IoT based farming system which can collect the data from different sensors and maintain important farm parameters. I have also used some AI algorithms to make future predictions about yields and important farm parameters which will increase the yield considerably and validate it.

[Design and implementation of Medicine Dispenser](#)

Author(s) - Rishit Dagli

July, 2019

International Advanced Research Journal in Science, Engineering and Technology Volume 6 Issue 6.

Most of the people in the world face a problem of forgetting to take their medicines on time. This device will help them to take their medicines on right time. After this he has to go to the Medicine Dispenser and spread his hand. The device will detect the hand and according to the time will dispense the appropriate medicine and validate it. I have also used some AI algorithms which with the data and history of patient can predict if the person is suffering from some diseases and they can be diagnosed early.

[Machine Learning as decision aid for breast cancer diagnosis](#)

Author(s) - Rishit Dagli

October, 2019

International Advanced Research Journal in Science, Engineering and Technology Volume 6 Issue 6.

In this paper, we use the diagnosis of breast cytology to demonstrate the applicability of this method to medical diagnosis and decision making. Each of 11 cytological characteristics of breast fine-needle aspirates reported to differ between benign and malignant samples was graded 1 to 10 at the time of sample collection. Nine characteristics were found to differ significantly between benign and malignant samples. Mathematically, these values for each sample were represented by a point in a nine-dimensional space of real variables. We use various different algorithms and also demonstrate the comparison between the algorithms for the classification problem. Finally, an overall accuracy of 99.4048% is achieved. We only classify 1% of benign case as malignant. The algorithms used are programmed in python for demonstration purposes. This paper also demonstrates deploying the created model on cloud and building an API for calling the model and verify it.

WORK EXPERIENCE

[Research and Project Intern](#)

[Science Kidz Educare Pvt. Ltd.](#)

An Ed-Tech start up which promotes STEAM Education and teaches Robotics and Automation to school children and above.

06/2018 – 27/04/2019

Achievements/Tasks

- Teaching robotics to students as per course syllabus.
- Designing, Programming, Testing and Debugging Projects for service improvement.
- Researching on new technologies.
- Conducting RaspberryPi workshops.
- Conducting IoT workshops.
- Developing official website of Science Kidz Educare Pvt. Ltd.

Intern

Robotron Labs and EZ Lock

Robotron Labs is an Ed-Tech startup promoting robotics and IT
EZ Lock is an industrial manufacturer and supplier of smart IoT
based digital locks.

28/04/2019 - 30/05/2019

Achievements/Tasks

- Building nano drones.
- Programming drones.
- Working with mBots and Arduino to create projects.
- Designing, Programming, Testing and Debugging Projects for service improvement.
- Researching on new technologies.
- Developing, maintaining and refactoring official website of Roboton Labs.
- Teaching robotics and about drones to students as per course syllabus.
- Designing, debugging, testing, programming and building industry level new power efficient and cost efficient smart digital locks.

Mentor

Young Engineers's Club

06/2018 – Present

Achievements/Tasks

- Conducting Seminars for Robotics and STEM Awareness in various colleges and events across Mumbai.
- Mentored 4 projects in annual robotic event Ignited Minds Expo.
- Gave Android app development workshop.
- Learnt PCB Designing.
- Attended Technical Paper Writing Workshop.

AI Content Writer

Analytics Vidya, Towards DataScience

09/2018 – Present

Achievements/Tasks

- I write about various different AI algorithms and their proofs and how one can apply them using different languages in real time and publish them on Analytics Vidya Website

VOLUNTEER EXPERIENCE

Ignited Minds Expo.

- Mentored 4 Projects in the annual event Ignited Minds Expo.
- Judge and managed a competition in Ignited Minds Expo.

Dilkush Children's Home

- Practical education initiative for underprivileged and orphan kids by conducting number of practical training sessions in Robotics and computers.

Young Engineers Club

- I gave 2 days Android application development workshop

ScienceKIdz

- I gave an AI workshop

CERTIFICATES

[Google Cloud platform: Big Data and Machine Learning](#)

Google Cloud

[TF in Practice, TF: Data and Deployment, AI for Medical](#)

[Diagnosis, AI for Medical Prognosis, Deep Learning](#)

[deeplearning.ai](#)

[CS 101, Statistical Learning \(2019\)](#)

Stanford University

[Node Red: basics to bots](#)

IBM

[Data Science \(2019\)](#)

IIT Bombay

[Machine Learning \(2019\)](#)

IIT Bombay

[Ninja Cat Week of AI badge](#)

Microsoft

[Baseline : Develop and Deploy, Baseline : Infrastructure, Baseline:](#)

[Data, ML, AI and Machine Learning APIs, Server less web apps](#)

[using Amazon DynamoDB, OK Google: Build Interactive Apps](#)

[with Google Assistant, Palo Alto Networks, Kubernetes in the](#)

[Google Cloud, Cloud Architecture, Advanced ML: ML](#)

[Infrastructure and Data engineering_\(2019\)](#)

Google Cloud Platform Qwiklabs

[ASP.NET Core-Beginner, Testing Power Shell with Pester, DSC](#)

[and Custom State Configuration with Pester, Azure Developer](#)

[Workshop \(Storage, Cognitive, ML, Stream Analytics, Containers,](#)

[and Docker\) \(2018-2019\)](#)

Microsoft Certification

[Mobile Site Development \(17/3/2019\)](#)

Google Certification

[Mobile Site Development \(2019\)](#)

IIT Bombay, Entrench Electronics

[Python advanced, Blockchain Course, Artificial Intelligence,](#)

[Machine Learning Course, and Cryptography Course \(2018-2019\)](#)

Programming Hub Certification

[Building Chatbot \(2018\)](#)

IIT Bombay, Techfest

[Ethical Hacking \(2018\)](#)

Microsoft, IIT Bombay, Kyrion Technologies

[Advance Ethical Hacking \(2018\)](#)

Microsoft, KJ Somaiya College

[Build and Test F-22 Raptor Model \(2017\)](#)

Aero VJTI

[Design and Fabrication of nano quad rotor - Pluto](#)

Drona Aviation IIT Bombay

[C, C++, Java Script, PHP, HTML, C#, Java, SQL Programming](#)

[\(2018-2019\)](#)

Solo Learn Certificate of Completion

LANGUAGES

English

Hindi

Gujrati

