Albert Shaji

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https://albertshaji.github.io
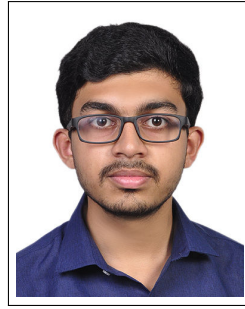
Education

2020 – Present

B.Sc Programming and Data Science
Indian Institute of Technology (IIT), Madras, IN

Specialization: Machine Learning and Artificial Intelligence

2016 – 2019

B.Sc Physics Chemistry Mathematics
Christ University, Bangalore, IN

CGPA: 3.14/4.00

Discipline-Specific Electives
Physics: Analog and Digital Electronics, Quantum Mechanics
Mathematics: Calculus of several variables, Graph Theory

Generic Electives
Teaching Learning
Astronomy and Astrophysics
Health and Psycho-Physiology

Research Experience

Aug 2019 – Oct 2019

Visiting Student Program (VSP)
Raman Research Institute, Bangalore, IN

In this project, I worked closely with Prof. Avinash Deshpande to find out probability distributions associated with maximum entropy. With constraints on standard deviation, variance, etc. Entropy equations used here are different from that of Shannon's.

Apr 2018 – May 2018

Summer Research Project
Kerala School of Mathematics, Kozhikode, IN

Explored Elliptic functions, Discriminant delta function, Dedekind eta function, and Ramanujan's tau function under the guidance of the Number theorist Prof. M Manickam.

Apr 2017 – May 2017

Visiting Student Research Program (VSRP)
TIFR - Centre for Applicable Mathematics, Bangalore, IN

Explored ideas of Metric space and Real analysis with Prof. KT Joseph. Attempted to understand Why Mathematics is called the language of Nature.

Work Experience

Feb 2020 – Mar 2020

Research and Development Intern
Sciensation Society, Hyderabad, IN

Designed and Developed Student-centered Curriculum using Design Thinking approach based on Research, and Philosophy of Science and Language.

Honors and Awards

Mar 2014

Junior Mathematical Olympiad
Kendriya Vidyalaya Sangathan, New Delhi, IN

All India Rank: 29

Sep 2014, 2013

Painting Competition
Kerala House, New Delhi, IN

Position: First

Workshops and Seminars

Oct 2019

Manim (Python library for Mathematics Animation)
Indian Institute of Science, Bangalore, IN

May 2018

Number Theory and Algebra
Kerala School of Mathematics, Kozhikode, IN

Mar 2018

Python Programming
Christ University, Bangalore, IN

Feb 2018

Mathematical Analysis
Christ University, Bangalore, IN

Nov 2017

Amateur Radio
Indian Institute of Hams, Bangalore, IN

Feb 2017

Stellar Astrophysics
Christ University, Bangalore, IN

Skills

Languages English (Fluent), Malayalam (Native), Hindi (Fluent)

Programming Python (Intermediate), C++ (Advanced), Linux (Intermediate)
Scripting & Automation using command-line Linux programs

Markup LaTeX (Advanced), HTML-CSS (Intermediate)