

Naksatra Kumar Bailung

(He/Him/His)

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Nukerty
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EDUCATION

Indian Institute of Science Education and Research
Majors in Mathematics and Statistics

Kolkata, India
July 2022

S.S. High School and Vishwajyot High School
Passed Maharashtra State Board of Higher Secondary Education with 85.08%
Passed Indian Certificate of Secondary Education with 95.8%

Navi Mumbai, India
Feb 2017 / Mar 2015

PROJECTS

Automatic Generation of Legal Ontologies (Master's Thesis)

2021 – 2022

Discussed the methodologies and history of judicial document handling
Developed and observed how well an almost automatic ontology generation performs
Provided an alternate mechanism for lawyers to refer previous court cases and relevant documents

Time Series Analysis Project

Winter 2021

Focused on the daily consumption of electricity in Indian Households and presented as a solo semester project
Used ARIMA and Kalman filter for forecasting and some residuals diagnostic to successfully predict with 65% accuracy
Studied seasonal/yearly changes and provided a clean GUI for interacting with the data easily

Elliptical Curve Cryptography (Summer Internship)

Summer 2019

Took up a summer reading project, under the guidance of Dr. Anupam Saikia at IIT Guwahati
Studied about algebraic geometry and elliptical curve cryptography, and prepared a report on the recent findings on the subject

Chess Bot (Lambdex)

Present

Created a Chess bot on Lichess with the backend completely in C++ and added as many modern C++ features
Added a TUI interface with ASCII Art to represent the chess board and its states
Lambdex looks ahead into 4 moves successfully in ~3-4 seconds and plays the best move it sees fit

LEADERSHIP & ACTIVITIES

Slashdot Coding and Designing Club

Founder / Codechef Chapter Head

Founded the coding and design club at IISER Kolkata (April 2021). Gave multiple talks on blender and cryptography
Connected with Codechef to start a College Chapter at IISER Kolkata

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Treasurer

Interacted with IISER Kolkata administration and sponsors on a daily basis to enable the success of the event

RESEARCH SKILLS

Primary skills : Statistics, Deep Learning, Computer Vision, Natural Language Processing

Teaching Assistant : Introduction to Python (2020), Introduction to Data Structures and Algorithm in C (2021)

Interest Areas : Artificial Intelligence, Visualization, Data Science, Programming Languages

SKILLS & INTERSETS

Technologies : Python, C++, Boost, OpenGL, Tensorflow, Blender, NetworkX, Scipy, OpenCV, ASM

Workshops : Vijyoshi Camp 2017, SAIL 2021 Conference, SparkAR Facebook

Languages : English (IELTS-8.0), Assamese (Mother tongue), Hindi (Native), Bengali (Intermediate)

Soft Skills : Listener, Public Speaking, Friendly, Truthful, Dedicated, Realist

Interests: Game Development, Graphics Development, Music Production, Classical Music, Gym