

# Bidhov Bizar

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CONTACT INFORMATION	<b>Indian Institute of Science</b> ECE main building, Room 2.16 Bangalore, KA 560012, India	+91 8848-679-599 bidhovbizar@iisc.ac.in <a href="https://ece.iisc.ac.in/~bidhovbizar/">https://ece.iisc.ac.in/~bidhovbizar/</a>
RESEARCH INTERESTS	Distributed Systems and Networks, Network Telemetry and Analysis, Data Science	
PROFESSIONAL EXPERIENCE	<b>Internship:</b> Data Center Intern CISCO, Bengaluru	May,21-July,21
	<b>Technical Lead:</b> Tropical Institute of Ecological Science Worked on product design.	Aug,15-April,16
	<b>Internship:</b> Robosapiens Technologies Pvt. Ltd Detailed study and analysis of ATMEGA328,ATMEGA168	May,15
COMPUTER PROFICIENCY	<b>Programming Languages:</b> Java, Python, C, C++ <b>Programming Frameworks:</b> Embedded C, AVR, Ryu, Pox <b>Tools &amp; Technologies:</b> Kafka, NS3, Dockers, WireShark, Mininet, TRex <b>Operating System:</b> LINUX, Windows, CentOS <b>Software:</b> L <sup>A</sup> T <sub>E</sub> X <b>Scripting:</b> MATLAB, Bash <b>Databases:</b> MySQL <b>Web Technologies:</b> HTML	
HONORS & AWARDS	<ul style="list-style-type: none"><li>• All India rank 1276 in ECE stream in GATE, 2018.</li><li>• Project shortlisted for AIYEHUM,IEEE R10.[2016]</li><li>• Shortlisted for Mathematics camp For INMO (2011,2012)</li><li>• 99<sup>th</sup> rank in Junior Mathematics Olympiad, 2010.</li></ul>	
EDUCATION	<b>M. Tech.(Research), Indian Institute of Science</b> Electrical Communication Engineering, Network Lab ◇ Advisor: <a href="#">Parimal Parag</a>	07/2018-Present
	<b>B. Tech., Rajiv Gandhi I.T., Kottayam</b> Electrical Engineering Class Rank : 7/72	07/2012-07/2016

**Higher Secondary School, Kendriya Vidyalaya, KGQ** 06/2010-07/2012  
Science Stream  
Percentage : 94

**High School, Kendriya Vidyalaya, KGQ** 06/2004-07/2010  
Percentage : 92

RELEVANT  
COURSES

**Electrical Engineering:** Digital Communications, Communication and Sensor Networks, Real Time System, Image Processing.  
**Mathematics:** Probability, Convex Optimization, Queuing Thoery.  
**Data Science:** Machine Learning, Practical Data Science, Pattern Recognition and Neural Network

ACADEMIC  
EXPERIENCE

**Research Assistant, CUSAT** 06/2015  
Department of Physics

PROJECTS  
EXPERIENCE

- **Networking:**  
Constructed network using **Mininet** with multiple **TRex Traffic Generator** at hosts establishing **TCP** communication and obtaining telemetry.  
Constructed **Simulation Framework** in **Python** for large scale Data Center.  
Simulated Fat-Tree topology to observe the the congestion of flow in **NS3**. [2020]  
Emulated Fat-Tree topology in mininet to collect the telemetry data using **Ryu** Controller. [2020]
- **Java Development:**  
Deployed **Kafka** system in Network Lab and optimized it for better performance. [2019]
- **Data Science:**  
Processed the **telemetry** data by applying sketching algorithms and observe the congestion. [2020]  
Studied **Multi-label regression** techniques such as xgboost, random forest, Naive Bayes over **sketched** data. [2019]  
**Binary classification** and predict the trump cards for a game of cards. [2019]
- **Hardware Project:**  
Developed **Heterogenous Traffic Analyzer** to be deployed in roads to calculate traffic intensity. [Funded By TEQUIP, 2016]  
Created **Electronic Braille reader** to read from text paired with mobile via bluetooth. [Funded by AIYEHUM, IEEE, 2015]  
Automated Bio Gas plant for research in bacteria. [Funded by TIES, 2016]
- **C++ with SQL:**  
Created billing system for storage and book keeping purpose, where the database source was stored at MySQL database. [2012]

MEMBERSHIPS      IEEE, Computer Society, WIE