

# Muhammad Abdullah

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## EDUCATION

<b>BANGALORE INSTITUTE OF TECHNOLOGY</b>	CGPA-8
<i>Bachelor of Engineering in Computer Science</i>	2020 – 2024
<b>Bangalore International Academy</b>	84%
<i>ALL INDIA SENIOR SCHOOL CERTIFICATE EXAMINATION (CBSE)</i>	2018 – 2020
<b>Christ School ICSE</b>	85%
<i>INDIAN CERTIFICATE OF SECONDARY EDUCATION EXAMINATION (ICSE)</i>	2018

## PROJECTS

<b>Blog project</b>   <i>Python, Django, HTML/CSS, Bootstrap</i>	current
<ul style="list-style-type: none"><li>Developed a comprehensive blogging platform using Python, Django, and PostgreSQL for understanding backend functionality.</li><li>Designed and implemented a user-friendly interface with HTML/CSS and Bootstrap for responsive design.</li></ul>	
<b>Federated Learning Systems</b>   <i>Python, Machine Learning</i>	April 2024
<ul style="list-style-type: none"><li>Inducing data poisoning attacks by maliciously generated synthetic images using a GAN</li><li>Working on developing a server side defense strategy to mitigate the effects of the data poisoning attacks on FL systems</li></ul>	
<b>Stock Management System</b>   <i>Python, MySQL</i>	January 2023
<ul style="list-style-type: none"><li>Developed a Application to scrape stock info from stock websites and store it in the database</li><li>The stock data was scraped using the cloudscraper module in python and other libraries like requests, bs4 etc.</li><li>All data will be stored in a MySQL database which is connected to python by mysql.connector</li></ul>	
<b>Unit Converter</b>   <i>Android Studio, Java</i>	January 2023
<ul style="list-style-type: none"><li>Developed a mobile application to create a user-friendly and efficient application that allows users to convert various units easily and quickly</li><li>The application will provide a comprehensive range of unit categories, including but not limited to length, weight, temperature, currency, and time.</li></ul>	
<b>Student Feedback System</b>   <i>Python</i>	June 2023
<ul style="list-style-type: none"><li>Developing a Machine learning model to visualize the data of the students feedback on the Universities in various categories like infrastructure, Teaching Faculty, Job opportunities</li></ul>	

## PUBLICATIONS

<b>Label Flipping Attacks on Federated Learning: GAN-Based Poisoning and Countermeasures</b>	2024
Muhammad Abdullah, Vidhatri Bapu, Akash KA, Abdul Mannan Khan, M S Bhargavi	
<ul style="list-style-type: none"><li>The research paper was presented at the 2nd IEEE International Conference on Data Science and Network Security (ICDSNS) 2024, and published by IEEE as a conference paper.</li><li>The paper explores vulnerabilities in federated learning systems, specifically label-flipping attacks affecting global model accuracy and the security challenges faced.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, R, C/C++, SQL, HTML/CSS  
**Developer Tools:** VS Code, RStudio, PyCharm, IntelliJ, Eclipse, Xcode  
**Libraries:** pandas, NumPy, Matplotlib, sklearn, cloudscraper