

# ABHAYA SOOD

✉ [abhayasood99@gmail.com](mailto:abhayasood99@gmail.com) | 📞 +91 98055 04162 | 🏠 Vikasnagar, Shimla, Himachal Pradesh, India

[Github](#) | [Linkedin](#) | [Leetcode](#)


## EDUCATION

<b>National Institute of Technology(NIT), Hamirpur</b>	2021 - 2025
<i>Bachelor of Technology in Computer Science and Engineering,</i>	<b>CGPA 7.97/10</b>
<b>St. Edward's School, Shimla</b>	2020 - 2021
<i>Central Board of Secondary Education(CBSE)</i>	<b>90.60%</b>






## TECHNICAL SKILLS

<b>Languages:</b>	C++, Java, C, JavaScript, Python
<b>Libraries/Frameworks:</b>	ReactJS, ExpressJS, NodeJS, Native Android
<b>Databases:</b>	MongoDB, MySQL, Firebase Firestore, Firebase RealtimeDB, PostGRES, Neo4j
<b>Tools:</b>	Git, Github, AWS, GCP, Firebase, Linux, Admob, Tailwind CSS
<b>Coursework:</b>	Data Structures and Algorithms, Object Oriented Programming, Operating System, Database Management System, Computer Networks

## EXPERIENCE

<b>Research Intern</b>   <a href="#">GitHub</a> 	May 2023 – July 2023
<i>Indian Institute of Technology(IIT), Gandhinagar</i>	<i>Gandhinagar, Gujrat</i>
<ul style="list-style-type: none"><li>Researched and implemented an Android application to measure two important lung parameters, FEV1 and FVC with real-time visual feedback on measurement maneuver</li><li>Used <b>Machine learning algorithms</b> such as <b>Random Forest</b> on collected data which resulted in a <b>mean absolute percentage error of 6.05% for FEV1 and 5.77% for FVC</b></li><li>The trained model runs locally on android by using ONNX technology eliminating the need of internet, thus improving the performance efficiency by approximately 30%</li></ul>	

## PROJECTS

<b>PDF Reader App: Sangharsh</b>   <a href="#">PlayStore</a>    <a href="#">GitHub</a>    <i>Android, Java, Firebase</i>	June 2022 – July 2023
<ul style="list-style-type: none"><li>An app which has more than <b>10,000 downloads</b> on Play Store, lets you download and bookmark free and paid PDFs</li><li>Leveraged Firebase database, integrating Google AdMob for monetization, which <b>increased revenue by 30% from previous versions</b></li><li>Implemented a referral system allowing users to earn coins. Coins can be used to buy Paid PDFs</li></ul>	
<b>Fullstack EdTech App</b>   <a href="#">Link</a>    <a href="#">GitHub</a>    <i>ReactJS, ExpressJS, MongoDB</i>	July 2022 – September 2022
<ul style="list-style-type: none"><li>A <b>Full stack MERN application</b> that allows users to create, read, update, and delete educational resources</li><li>Users can access content on Android and moderators can use the admin panel to manage content and upload lessons and courses on the app</li><li>Video lessons are uploaded to AWS S3 and converted to various qualities via AWS Mediaconvert</li></ul>	
<b>Distributed Triple Store</b>   <a href="#">Github</a>    <i>Python, PostgreSQL, MongoDB, Neo4j</i>	July 2022 – September 2022
<ul style="list-style-type: none"><li>Designed and implemented a distributed NoSQL Database prototype integrating <b>3 database systems</b> (PostgreSQL, MongoDB, Neo4j), using Python and state-based objects, for efficient storage and querying</li><li>Developed a log-based merging mechanism for maintaining data consistency across 3 servers</li><li>Used Yago dataset with more than <b>13 million datapoints</b> for testing</li></ul>	

## POSITION OF RESPONSIBILITIES

Class Representative of Computer Science and Engineering Department, NITH of batch 2025

Handled Web developer team for the Resurgence club of NITH

## ACHIEVEMENTS

Selected in the SRIP(Student Research Intership Programme) by IIT GN with a 0.5 percent acceptance rate