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# Nandini Jha

## Technical Skills:

Python, C++, Java, Django, MySQL, Angular, Git, AWS Cloud, Html/CSS/Bootstrap/JS/jQuery

## Certification:

- IBM AI Professional course, Coursera, Feb 2023
- Data Analytics, Teachnook with IIT Bhubaneshwar, May 2023
- AWS Certified Cloud Practitioner, Feb 2024
- AWS Certified Solution Architect - Associate, Feb 2024

EDUCATION			
Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE) Core	October 2023 –Ongoing	Vellore Institute of Technology, Bhopal	8.76/10
Class XII	July 2021	St. Theresa Girls' School, Bhopal	86.8%
Class X	May 2019	St. Theresa Girls' School, Bhopal	87.4 %
ACADEMIC PROJECTS			
Full Stack, AI Machine Learning, Data Analysis	<ul style="list-style-type: none"><li>▪ <b>PleasantSounds</b> (Oct 2022 – Jan 2023)<ul style="list-style-type: none"><li>- Description:<ul style="list-style-type: none"><li>▪ Music classification web app, trained on personal music data comparing 3 different AI models- ANN, CNN and LSTM</li><li>▪ LSTM used as the final model which predicts the genre of a given sound sample by extracting MFCC data from the signal and classifying it. Deployed the model as web app using Django framework.</li></ul></li><li>- Technology: Django, Python, HTML/CSS, Bootstrap, AI, Audio processing.</li><li>- Team Project: 5 members</li><li>- Role:<ul style="list-style-type: none"><li>▪ <u>Main Role</u>: Led as a full-stack developer, orchestrating the application's development by seamlessly integrating the AI model with the frontend and database. Took charge of frontend development, programmed route logic, and executed seamless integrations.</li><li>▪ <u>Side Roles</u>: Contributed as a Machine Learning engineer, actively engaged in model training. Collaborated with teammates on building and training various model versions using diverse audio files.</li></ul></li></ul></li></ul>		
Full Stack	<ul style="list-style-type: none"><li>▪ <b>Library Management System</b> (Jan 2021– Feb 2021)<ul style="list-style-type: none"><li>- Description:<ul style="list-style-type: none"><li>▪ Developed a comprehensive Library Management System, encompassing system software with integrated user authentication (username and password). The system included core functionalities such as issue/return tracking, membership management, fine calculation, and return date management.</li><li>▪ Primarily focused on effectively performing CRUD operations and python database connectivity.</li></ul></li><li>- Technology: Python, MySQL (CRUD operations)</li><li>- Team Project: Solo</li><li>- Role:<ul style="list-style-type: none"><li>▪ Served as a Full stack developer. Utilized python frames to develop frontend GUI and MySQL as database.</li></ul></li></ul></li></ul>		
Embedded System	<ul style="list-style-type: none"><li>▪ <b>Servo Motor</b> (Sep 2023)<ul style="list-style-type: none"><li>- Description:<ul style="list-style-type: none"><li>▪ Developed and implemented Arduino code to control a servo motor with predefined movement pattern, emphasizing precision and reliability in software-controlled hardware</li><li>▪ Emphasizing on efficient code structure and modularity.</li><li>▪ Demonstrated smooth and controlled movement using delay functions.</li></ul></li></ul></li></ul>		

	<ul style="list-style-type: none"> <li>- Technology: C++, Arduino, utilized Servo library</li> <li>- Team Project: Solo</li> <li>- Role: <ul style="list-style-type: none"> <li>▪ Fulfilled the role of a solo developer, handling both hardware (Arduino) programming and integration with the motor, showcasing proficiency in embedded systems and microcontroller programming.</li> </ul> </li> </ul>
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TRAINING	
Teachnook collaborated with Wissenaire(IIT Bhubaneshwar)	<ul style="list-style-type: none"> <li>▪ <b>Trainee:</b> (April 2023 – May 2023) <ul style="list-style-type: none"> <li>- Trained in various AI concepts such as data visualization, feature extraction, hyperparameters, models - ANN, CNN, Logistic Regression and tools like sklearn, tensorflow, numpy, etc.</li> <li>- Project: A classification model which determines if a bank term deposit would be subscribed or not in direct marketing campaigns.</li> </ul> </li> </ul>

CO-CURRICULARS	
Coding	<ul style="list-style-type: none"> <li>▪ <a href="https://auth.geeksforgeeks.org/user/nandinijha2k3">https://auth.geeksforgeeks.org/user/nandinijha2k3</a></li> <li>▪ <a href="https://leetcode.com/WhiteTigress">https://leetcode.com/WhiteTigress</a></li> </ul>

EXTRA-CURRICULARS AND ACHIEVEMENTS	
Achievements	<ul style="list-style-type: none"> <li>▪ Grabbed 4<sup>th</sup> prize in Techfest IIT Bombay zonal competition – ‘codecode’ held in Bhopal zone (Oct 2023)</li> <li>▪ 3rd Prize in Poster Making Competition organized by IOT club, Topic: Instruction Cycle. Prize money Rs. 151 (Sep 2022)</li> </ul>
Responsibilities	<ul style="list-style-type: none"> <li>▪ Core member of Hindi club Event Management Team; Enlightening others about the Hindi culture; Led decoration efforts for ‘Utsahotsav’ event by creating captivating posters and paintings; Meticulously orchestrated audience seating for optimal comfort, ensuring a captivating and enjoyable performance ambiance in the ‘Kavyanjali’ event.</li> <li>▪ Member of CGCT(Clean Green campus team); Working together with team to keep campus clean.</li> </ul>
Extracurricular	<ul style="list-style-type: none"> <li>▪ Presented my poem ‘kuch aur sunayenge’ at ‘Poem &amp; Kahaniyan’ Open Mic event [12 Feb 2023]</li> <li>▪ Participant, Poster Making competition organized by Fine Arts club, Topic: Kargil Diwas (July 2022)</li> </ul>

ADDITIONAL INFORMATION	
Hobbies	<ul style="list-style-type: none"> <li>▪ Creative Writing – Poems, songs</li> <li>▪ Strategic thinking - Chess</li> <li>▪ Versatile Artistry - Sketching, Painting, Clay Modelling, Paper Crafting, Wall Hangings, Card Making, Embroidery, Lace (Tatting), Clothes Sewing, Apparel Designing.</li> </ul>
Languages	<ul style="list-style-type: none"> <li>▪ English, Hindi</li> </ul>