

Education

<b>Birla Institute of Technology and Science, Pilani</b>	<b>2017 - 2022</b>
Dual degree course Bachelor of Engineering and Master of Science  CGPA: <b>7.6</b>	
<b>Class XII<sup>th</sup></b> 2015 - 2016	<b>Class X<sup>th</sup></b> 2013 - 2014
CBSE   Percentage – <b>85.3%</b>	CBSE   CGPA – <b>8.8</b>

Technical Skills

<ul style="list-style-type: none"><li>• <b>Coding Languages:</b> Java   Python   C++   R   JavaScript   HTML   CSS</li><li>• <b>Framework:</b> Flask (Python)</li><li>• <b>Databases:</b> MySQL   SQL Server   RDBMS</li><li>• <b>Development tools:</b> Eclipse   PyCharm   Notepad++   Jupyter Notebook   Visual Studio Code</li><li>• <b>Misc:</b> Git   Shell   NUnit   Selenium   Pytest</li><li>• Object Oriented Programming   Data Structures and Algorithm   Operating Systems.</li></ul>	
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Experience

<b>MBB Labs Pvt Ltd. - Risk Performance and Quantitative Analytics - Product Engineer</b>	<b>Jul'22-Dec'22</b>
<ul style="list-style-type: none"><li>• <b>Mortgage Analysis Dashboard Development</b><ul style="list-style-type: none"><li>○ Created a Mortgage Analysis Dashboard utilizing Oracle SQL for data retrieval and R/Python for visualization.</li><li>○ Designed an interactive user interface with graphs, maps, and tables to visualize mortgage metrics.</li><li>○ Collaborated with cross-functional teams, gathered feedback, and optimized query response times.</li><li>○ Automated data updates for real-time information, enhancing data security.</li><li>○ Ensured robust access controls and encryption measures for data integrity.</li></ul></li><li>• <b>Technologies</b> – Python, R, R Shiny, Oracle SQL, Agile development process.</li></ul>	
<b>Viacom 18 Media Pvt Ltd. - Corporate Strategy and Data Science - Data Scientist</b>	<b>Jan'22-Jun'22</b>
<ul style="list-style-type: none"><li>• <b>Project 1: TV Channel Ad Break Scheduling and Optimization</b><ul style="list-style-type: none"><li>○ Utilized Enhanced Machine Learning (ML) models to accurately predict retention, viewership, and market share variables to schedule and optimize advertisement block for 6 different channels.</li><li>○ Employed advanced algorithms such as XGBoost, LightGBM, Random Forest, and Logistic Regression to make strategic scheduling decisions.</li><li>○ Incorporated more than 40 features to enhance ad break scheduling accuracy.</li><li>○ Leveraged non-advertisement time slots to maximize market share, providing a competitive edge.</li><li>○ Achieved prediction accuracy within the range of 76% to 85%.</li></ul></li><li>• <b>Project 2: Advertisement Demand Prediction</b><ul style="list-style-type: none"><li>○ Enhanced prediction accuracy with an advanced algorithm, Light GBM, achieving an outstanding 93.3% accuracy.</li><li>○ Significantly outperformed the baseline accuracy of 74.4% obtained using Random Forest Regression.</li><li>○ Employed Random Search and Grid Search techniques to fine-tune hyperparameters, optimizing the predictive model.</li><li>○ Utilized the BARC Database for accessing and filtering crucial data, ensuring the integrity and quality of the datasets.</li></ul></li><li>• <b>Technologies</b> – Python, R, Machine Learning, NumPy, Pandas, BARC Database, Data Cleaning, and filtering.</li></ul>	
<b>CSIR – National Metallurgical Laboratory - Design and Analysis of Experiments - Research Analyst</b>	<b>May'19 – Jul'19</b>
<ul style="list-style-type: none"><li>○ Explored novel 'collector' properties of waste cake-derived sesame oil as a potential diesel substitute.</li><li>○ Applied factorial design to study three parameters and their second-order interactions across four collector-frother combinations.</li><li>○ Optimized the model by reducing Mean Square Error (MSE) through the elimination of less critical parameters.</li><li>○ Validated research findings using hypothesis testing with p-value analysis.</li><li>○ Achieved a remarkable 97% accuracy with a meticulously crafted Multiple Regression Mathematical Model.</li><li>• <b>Technologies</b> – Minitab' 19, Hypothesis Testing, Applied Statistical Methods.</li></ul>	

Projects

<b>RevitalizeMe – Your Path to a Healthier Lifestyle: Health and Fitness related Website</b>	<b>Feb'23 – Apr'23</b>
<ul style="list-style-type: none"><li>• Conceptualized and developed "RevitalizeMe," an all-encompassing website with user login and registration options.</li><li>• Included Basal Metabolic Rate (BMR) calculator and daily macronutrient requirement estimator on the basis of your lifestyle.</li><li>• Designed and integrated a comprehensive calorie and nutrient tracker, encompassing both macro and micro nutrients.</li><li>• Curated a vast collection of 1000+ healthy recipes, providing users with a diverse range of course and dietary choices.</li><li>• Developed informative pages dedicated to educating users about lifestyle disorders and their management.</li><li>• <b>Technologies</b> – Python, HTML, CSS, JavaScript, MySQL, Web Scraping, Flask, Web Development, API Integration.</li><li>• <b>Website live on:</b> <a href="https://revitalizeme.onrender.com">RevitalizeMe</a> (https://revitalizeme.onrender.com)</li></ul>	
<b>Portfolio Website</b>	<b>Jan'22</b>
<ul style="list-style-type: none"><li>• Created a comprehensive portfolio website to showcase my work, skills, projects, publication, and accomplishments emphasizing my proficiency in web development.</li><li>• <b>Technologies</b> – HTML, CSS, JavaScript.</li><li>• Website live on: <a href="https://anshulisarjekar.onrender.com">Portfolio Website</a> (https://anshulisarjekar.onrender.com)</li></ul>	

Publication

<b>A Review on Flotation Techniques and Reagents used in Graphite Beneficiation.</b>	<b>Mar'23</b>
<ul style="list-style-type: none"><li>• Coauthor in a review paper published in International Journal of Chemical Engineering - <a href="#">Link to full access</a>.</li></ul>	

Extracurricular Activities & Position of Responsibility

<ul style="list-style-type: none"><li>• Hold a bachelors' degree in Classical Music (Vocal) in 2016 from the renowned University – Prayag Samiti, Allahabad.</li><li>• Core Team Member - Grub Coordinator - Managed team of 90 members for the Annual food festival attended by 750 people.</li><li>• Love playing chess and badminton, swimming, sketching, making creative arts and singing.</li></ul>	
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Volunteer Experience – NSS, BITS Pilani

<ul style="list-style-type: none"><li>• Taught underprivileged students of Pilani for the Joint Entrance Examination(JEE) to class XI and class XII grade students.</li></ul>	
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