

**NITISH BAHL**Course : **M.Sc. (Hons.)**, Chemistry and **B.E. (Hons.)**, Electrical & Electronics, 2021

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CGPA : 8.25

**ACADEMIC DETAILS**

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Delhi Public School, Faridabad	Central Board of Secondary Education	94.2 %	2016
CLASS X	Delhi Public School, Faridabad	Central Board of Secondary Education (CBSE)	10 CGPA	2014

<b>Subjects / Electives</b>	Neural Networks and Fuzzy Logic, Data Structures and Algorithms, Object Oriented Programming (OOP), Digital Image Processing, Computer Programming, Mathematics III, Microprocessor and Interfacing, Electronic Devices, Digital Design, Discrete Structures in Computer Science, Optimization, Probability and Statistics
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<b>Technical Proficiency</b>	Python3, Machine Learning, Matplotlib, Pandas, Artificial Intelligence, Data Science, NumPy, Scikit-Learn, Vue.js, Git, Firebase, JavaScript, MATLAB, Java, Data Structures, Data Analysis, Android Development, C Programming, Web Application Development, PHP development, HTML + CSS, Bootstrap, C++ Language
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**SUMMER INTERNSHIP / WORK EXPERIENCE**

<b>Student Developer, 2019 Google Summer of Code student with Joomla!</b>	<b>May 2019 - Aug 2019</b>
1. Developed a Page Builder application with a Drag and Drop GUI for adding and resizing components for leading open source CMS Joomla! Org using JavaScript and its frameworks (particularly VueJS) & PHP. Option to configure layout by emulating screen resolutions. 2. Centralised state management and methods using Vuex. Developed modular application that can be expanded and customised using plugins. Skills - JavaScript ES6, VueJS, Vuex, PHP, Vuetify, Bootstrap 4, Model-View-Controller Architecture, Git	
<b>Project Student - Web Development, Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam</b>	<b>May 2018 - Jul 2018</b>
Developed and deployed a web portal on Linux Mail Server to automate E-Mail account management services like password changing, creation and deletion of accounts, password expiry information, server monitoring for load balancing. Skills- Javascript, PHP, HTML, CSS, AWK, Linux, Basic Networking(TELNET)	

**PROJECTS**

<b>Lab Oriented Project - pH detection of an analyte using a smartphone - Machine Learning   Mobile App Development</b>	<b>Aug 2019 - Present</b>
<ul style="list-style-type: none"> <li>Test and develop a Machine Learning model on Flask(Python) based backend to predict the pH value of a solution using the RGB values.</li> <li>Develop a mobile application to find out the RGB value of solution using camera to predict pH value.</li> </ul>	
<b>Predict stock prices of TCS - Data Science   Machine Learning</b>	<b>May 2019 - Jun 2019</b>
Analyse & visualise last 5-year data of TCS stock using Pandas and Matplotlib and applying supervised ML models using Scikit-Learn including Logistic Regression, KNN, Random Forest and SVM to predict the future value of TCS stock.	
<b>Open Source Contribution - phpMyAdmin - Web Development</b>	<b>Jan 2019 - Mar 2019</b>
A regular contributor in phpMyAdmin organisation, working on fixing bugs and feature development.	
<b>Sterilisation Unit using Intel 8086 - Microprocessors and Interfacing</b>	<b>Jan 2019 - Feb 2019</b>
To develop a Sterilisation unit prototype in MASM using Intel 8086, PPI, Decoder, Counter, ADC etc. and simulate it on Proteus 8.	
<b>Spam Classifier - Natural Language Processing</b>	<b>Jan 2019 - Jan 2019</b>
Developed a SMS spam classifier/filter using NLTK for message processing and Pandas for classification. Used TF-IDF and Additive Smoothing to achieve 89% accuracy.	

**POSITION OF RESPONSIBILITY**

<b>Google Summer of Code Mentor - Joomla! Org</b>	<b>Jan 2020 - Present</b>
<b>Student Faculty Council (SFC) Member - Department of Chemistry</b>	<b>Aug 2017 - Dec 2019</b>

**AWARDS AND RECOGNITIONS**

<b>Ranked in top 5500 in Data Structures section of HackerEarth   HackerEarth</b>	<b>Aug 2019</b>
<b>Ranked in top 2400 in Algorithms and in top 5500 in Data Structures section of HackerEarth   HackerEarth</b>	<b>Aug 2019</b>
<b>Earned Gold Level in HackerRank's Problem Solving section   HackerRank</b>	<b>Dec 2018</b>
<b>Hacktoberfest 2018   Digital Ocean</b>	<b>Dec 2018</b>

**VOLUNTEER EXPERIENCE**

<b>National Service Scheme - Role: Instructor   Cause: Education</b>	<b>Aug 2017 - May 2018</b>
Prepared village kids for All India Secondary School Examination (Class 10) for 12 months. Also, played a vital role in organizing and managing multiple events of NSS.	