

OBJECTIVE:

Graduate of Bachelor of Technology in the field of Computer Science and Business Systems. A hard-working individual with a curious mind and passion for coding, learning new things, learning about new technologies, and always open to working on new things, and gaining knowledge and experience.

EDUCATIONAL QUALIFICATIONS:

Degree	Institution	Board/University	Year	Academic Score
B.Tech	MPSTME, Mumbai	NMIMS University	2024	3.43/4 (CGPA)
Class XII	G.E.I.S MH High School and Junior College, Thane	HSC	2020	74.77 %
Class X	S.E.S High School and Junior College, Thane	SSC	2018	93.80 %

TECHNICAL SKILLS:

Domain	Proficient in	Familiar With
Languages	C, C++, Python, R, HTML5, CSS, JS, SQL	NextJS, ReactJS, MySQL, PostgreSQL, Anime.js, NoSQL, Node.js, Git, Java, Dart, Flutter, PHP, GO, Terraform
Libraries and Frameworks	NumPy, Pandas	Matplotlib, Sklearn, Seaborn, Pandas Profiling, Django, Tweepy
Software	Google Colab, Code Blocks, XCode, RStudio, VS Code, Sublime, GitHub, MySQL Workbench	Figma, TASM, Google Cloud Platform, MongoDB, Heroku, Google Cloud Storage, Cloud Firestore
Concepts	Object Oriented Programming, Basics of Software Engineering, Operating Systems, Database Management Systems and Data Structures	

KEY PROJECTS:

Year	Project Title	Software/ Tools/ Platforms	Brief Description
2023	House Price Prediction Model	GoogleColab, Pandas, Matplotlib, Sklearn, Numpy	Applied machine learning models on the Chennai House Price dataset to predict house prices based on various parameters. 8 models were used on 3 types of data: Normal, Minmax Scaled, and Standard Scaler data. The models were evaluated using R2 scores for each data type.
2022	Data Science Web App using Streamlit and Python	Python, VS Code	Built a Web App using Streamlit and Python and a CSV file to display a map showing the places that have the most injured people, a map showing the number of collisions occurring during the requested time of the day, and the top 5 dangerous streets in New York City each for pedestrians, cyclists, and motorists.
2022	Bank Management System	Java, VS Code	A bank management system in Java with the functionalities of adding customers, changing customer names, checking account balances, and summarizing all accounts in the bank.
2022	Statistical Data Visualization on Breast Cancer Diagnosis CSV	Python, NumPy, Pandas, Google Colab, Seaborn, Matplotlib, sklearn, xgboost	Conducted exploratory data analysis (EDA) on the dataset using the pandas and seaborn libraries. Various plots like count plot, violin plot, box plot, joint plot, and swarm plot were used to visualize the data. Additionally, a heatmap was generated to observe the correlation between each pair of columns in the dataset. In the data visualization phase, redundant columns were dropped, and the classifiers were classified. The optimal number of columns was determined through recursive feature elimination using cross-validation, and PCA was applied to the data.
2022	EDA on Breast Cancer Diagnosis CSV	Python, NumPy, Pandas, Google Colab, Seaborn, Matplotlib	Conducted EDA on the CSV using pandas and seaborn libraries, visualizing the data with various plots (count plot, violin plot, box plot, joint plot, and swarm plot). Additionally, heatmaps were created to analyze the count of two tumour types, observe their correlation, and understand the variance and correlation between columns in the dataset.
2022	Demonstration of Real-Time Operating System using 4 Algorithms	Google Colab, Python, Pycrypto Library	Implemented a menu-driven mini project to demonstrate Real-Time Operating System with 4 algorithms Earliest Deadline First, C-SCAN, Half Fit & Blowfish for management of processes, input/output, memory, and file respectively.

- Previous years' projects can be found on the GitHub Profile Link in the repositories section.

CERTIFICATIONS:

- Have completed various courses on LinkedIn Learning, Udemy on Web Development, Flutter, and various other technologies.
- Received gold badges in Java, Python, and C++ and certificates for Skill tests on Python and Java from HackerRank.

ACCOMPLISHMENTS:

Publications	• Adwait Laud, Shruti Borkar, Shrijanya Rai, Udit Kalra and Dharendra Mishra. Efficacy Check of Haralick and Symmetry Features for Skin Lesions Classification. International Journal of Computer Applications 185(3):1-8, April 2023.
--------------	--

Co-curricular	• Participation in the final round of VNR Design-a-thon – Collaborate Share Brainstorm Succeed conducted by the Department of CSE and CSBS in collaboration with CSI VNRVJIET SBC and VNR IEEE CS SBC (Feb 2023) • Volunteer – IBSSC 2022, IEEE Bombay Section (Dec 2022) • Participation in Round 1 of Tata Brand Assessment of Tata Imagination Challenge 2022 (Oct 2022) • Computer Engineering Department, MPSTME: Debugger, “Refresher Workshop for C\C++” for 1st year B.Tech students (Feb 2022)
----------------------	--

INTERNSHIPS:

- Takeoff Technologies Inc** **10 weeks | 15th May 2023 to 22nd July 2023 | After VI Sem**
Position: Software Engineering Intern
Work Done:
 1. Learnt to code in Golang
 2. Built REST APIs using Golang
 3. Learnt about Google Cloud Platform: Google Cloud Functions 2nd gen, Cloud Firestore, Cloud Storage and used them to complete assigned tasks
 4. Learnt about Terraform and used it for completing the tasks assigned
 5. Built a capstone project that included the company-specific API suite to manage API requests and storage options for the company-specific data.
- NeoDocto Inc** **4 months | 20th September 2021 to 20th January 2022 | III Sem**
Position: Artificial Intelligence Intern
Performance: A+
Work Done:
 1. Made a Manychat Bot
 2. Made a Video Testimonial
 3. Made a Resume
 4. Led a team of 6 interns
 5. Learnt Digital Marketing

ACHIEVEMENTS/ PARTICIPATION:

Position of responsibility	• IEEE MPSTME: Technical Co-Head (2022 – 2023) • IEC MPSTME: Technical Executive (2021-2022) • Taqneeq: Logistics Executive (Dec 2021 – March 2022) • Social Conclave: Technical Executive (Dec 2021 – March 2022)
Community Service	Member of Rotaract Club of Bombay Airport (Dec 2021 - Present)

PROFILE LINKS:

LinkedIn	https://www.linkedin.com/in/udit-kalra/
GitHub	https://github.com/Udit-Kalra-1117
HackerRank Profile	https://www.hackerrank.com/kalra_udit15
Google Cloud Public Profile	https://www.cloudskillsboost.google/public_profiles/7090b6f6-7ff9-49e7-8146-0f5f401b07ee