

KUNAL

kunalsingh2703@gmail.com | +91 8235324567

GitHub | LinkedIn

EDUCATION

University of Petroleum and Energy Studies (UPES)
Bachelor of Technology in Computer Science and Engineering
Major in Cloud Computing and Virtualization Technology (CCVT)
Minor in Artificial Intelligence and Machine Learning (AI/ML)

Dehradun, India
July 2020 - June 2024

CGPA: 8.47

EXPERIENCE

Visvesvaraya National Institute of Technology (VNIT Nagpur) | Summer Intern Nagpur | June 2023 - July 2023

- Implemented a smart irrigation system using Machine Learning, optimizing plant watering decisions with sensor data.
- Achieved significant improvements in water usage efficiency and agricultural practices through automation.

F13 Technologies | Summer Intern

July 2022 - Oct 2022

- Conducted a case study on McDonald's home delivery service, focusing on their usage of AWS technologies such as EC2, ECR, ElastiCache, RDS, S3 and ELB to optimize their operations and improve customer satisfaction.

LetsGrowMore | Summer Intern

June 2022 - July 2022

- Developed a tool to convert images from RGB to grayscale and create pencil sketches, using the cv2 library in Python.
- Developed a tool to extract text from articles and perform text analysis, using Python and Excel.

Ethical Edufabrica Pvt. Ltd | Trainee

Sept 2021 - Sep 2021

- Developed a user-friendly banking management system with secure login/signup interfaces, a dashboard for personal details, and transaction processing capabilities.
- Implemented the back-end logic using Python and SQL to manage user accounts and perform transactions.

Paridhi - NGO | Social Intern

Bhagalpur, India | June 2021 - July 2021

- Designing and conducting surveys, analyzing data using statistical tools, and presenting clear and concise findings with actionable recommendations.
- Collecting community data on education, demographics, income, health, and access to services.

SKILLS

Programming Languages:	Python, C++, C
Cloud Platform:	AWS, Google Cloud Platform, Microsoft Azure
Tools/ Technology/ Platforms:	Git, Docker, YOLO, Linux, Windows, macOS, CentOS, Jenkins Visual Studio
Databases:	MYSQL, MYSQL Workbench, Oracle
Familiar with:	HTML, CSS

PROJECTS / OPEN-SOURCE

Cloud Provider Advisor | Link

Python, AWS, GCP, Microsoft Azure, HTML, CSS, JS, Django, API, GitHub

- Designed and implemented a system that utilizes APIs to retrieve virtual machine instance data from different cloud providers, stores it in a database, and presents it to users through a user-friendly interface, enabling them to search and compare virtual machines based on features like memory, storage, and price.

Parking Spot Assigner with License Plate Detector | Link

Python, YOLOv7, openCV, Tesseract, MySQL

- Designed an automated license plate recognition system using computer vision and machine learning techniques, successfully extracting license plate numbers from vehicles.
- Integrated the system with an employee database to allocate parking slots based on seating locations, optimizing parking management and enhancing efficiency.

Custom Compiler | Link

Python, tkinter, C++

- Designing and implementing a comprehensive compiler in Python and C++, integrating lexical, syntax, semantic analysis, and code generation algorithms to produce executable machine code from source files.

Carbon Footprint Calculator | Link

HTML, CSS, JS, AWS, Docker, Jenkins

- Developing a carbon footprint calculator web application and implementing a robust CI/CD pipeline using Jenkins, Git, AWS, and Docker for efficient and automated software development, testing, and deployment.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals - **Microsoft**
- AWS Partner: AWS Cloud Practitioner Essentials - **Amazon Web Services Training and Certification**
- AWS Partner: Accreditation (Technical) - **Amazon Web Services Training and Certification**
- AWS Partner: Accreditation (Business) - **Amazon Web Services Training and Certification**
- AWS Partner: Cloud Economics Accreditation - **Amazon Web Services Training and Certification**

HONORS & AWARDS

- Received official copyright certification for the custom compiler.
- Got the opportunity to present the project Parking Spot Assigner with License Plate Detector at IBM ICE 2023.
- Also we got the opportunity to showcase the project Parking Spot Assigner with License Plate Detector at UPES Project Expo 2022.
- Technical Core Committee Member of Computer Society of India, UPES