# Snehil Sharma

Final Year B.Tech Student Computer Science and Engineering Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar

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## Profile

Self-starter and go-getter Computer Science student with a strong foundation in computer science principles, programming languages, and software development. Eager to contribute to innovative projects, excel in technology, and adapt to new technologies. Committed to continuous learning and seeking opportunities to apply skills in a dynamic organization.

#### EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
B.Tech. (CSE)	Kalinga Institute of Industrial Technology, Bhubaneswar	9.55 (Current)	2020-24
Class XII	Bethel Academy, Praygaraj (CBSE Board)	78.4%	2020
Class X	Kendriya Vidyalaya, Prayagraj (CBSE Board)	94.4%	2018

#### EXPERIENCE / TRAININGS

#### Celebal Technologies, Jaipur

Jun 2023 - Aug 2023 Remote | Certificate

Data Science Intern

- Led customer segmentation using advanced clustering for demographic, behavioral, and purchase insights.
- Received silver badge and accolades from senior project manager for expertly applying clustering algorithms.

#### • Cloud Counselage Pvt. Ltd., Mumbai

Jul 2023 - Sep 2023

 $Artificial\ Intelligence\ Intern$ 

Remote | Certificate

- Contributed to chatbot development, integrating text, speech inputs, and social media for instant support.
- Created & Enhanced chatbot with Python, Flask, and OpenAI for improved accuracy and efficiency.

## • The Sparks Foundation, Singapore

May 2023 - Jun 2023

Web Development Intern

Remote | Certificate | LOR

- Developed several practical web applications by leveraging HTML, CSS, JavaScript & PHP.
- Exhibited meticulousness in following web design best practices, encompassing accessibility and SEO optimization.

#### • CodeClause, Pune

Jun 2023 - Jul 2023 Remote | Certificate

Web Development Intern

- Created multiple functional web applications utilizing HTML, CSS & JavaScript.

Teamed with designers for responsive design, ensuring smooth cross-device user experience.

# · Oasis Infobyte, New Delhi

Jun 2023

Web Development and Designing Intern

Remote | Certificate

- Developed various utility web app using HTML, CSS & JavaScript.
- Performed QA testing, resolving bugs to uphold websites' performance and functionality standards.

# • EduSkills Foundation (AICTE), New Delhi

May 2023 - Jul 2023

Data Analyst Intern

Remote | Certificate

- Learned and implemented various data analytics services offered by the AWS like RedShift, EMR, QuickSight, etc.
- Implemented using AWS services including EC2, S3, RDS, Lambda, CloudFormation, IAM, and CloudWatch.

## • MathWorks, Bengaluru

May 2023 - Sep 2023

 $MATLAB\ Artificial\ Intelligence\ Intern$ 

Remote | Certificate

- Acquired proficiency in MATLAB, mastering its diverse features and capabilities.
- Utilized MATLAB effectively across various applications, including image & signal processing, ML and DL.

# • EduSkills Foundation (AICTE), New Delhi

Sep 2023 - Nov 2023

 $Artificial\ Intelligence - Machine\ Learning\ Intern$ 

Remote | Certificate

- Acquired and applied a range of AWS machine learning services, including SageMaker, Forecast, Rekognition, etc.
- Utilized AWS resources, like EC2, S3, RDS, Lambda, CloudFormation, IAM, and CloudWatch for implementation.

## Amazon, India

Sep 2023 - Oct 2023

Machine Learning (ML) Summer School 2023 Trainee

Remote | Letter

- Acquired ML knowledge on topics like Deep Neural Networks, Supervised Learning, PGM, Casual Inference, etc.
- Gained practical insights on applying these ML concepts to real-world scenarios from Amazon's ML Scientists.

# Projects

## • Real-Time Smart Facial Emotion Detection using EmoAnalyzer Model (Research)

Jan 2023 - Apr 2023

Tech Stack: Python, NumPy, Pandas, Matplotlib, Keras, OpenCV

Github | Paper

- Proposed a new facial emotion recognition model name 'EmoAnalyzer' which takes less computation cost.

# • Speech & Text Driven Generative AI Chatbot

Aug 2023

Tech Stack: Python, Flask, OpenAI, ChimeraGPT API, HTML, CSS, JavaScript, GCP

Github | Website

Created an innovative and dynamic AI Chatbot with speech recognition and natural language generation.

# Machine Learning-Based Predictive Modeling for 4G LTE Traffic Prediction (Research)

Aug 2023 - Sep 2023 Github | Paper

Tech Stack: Python, NumPy, Pandas, Scikit-learn, SciPy, Matplotlib, Seaborn

- Implemented various ML techniques (SVM, Bagging, Tweedie Regressor, etc.) to forecast 4G LTE network traffic.

• Enhancing Real-time Network Traffic Scenario Prediction with GRU-based RNN (Research) Sep 2023 - Oct 2023

Tech Stack: Python, NumPy, Pandas, Scikit-learn, PyTorch, Keras Github | Paper - Proposed a novel GRU-based RNN architecture for network traffic scenario prediction, achieving 75% accuracy.

# • SteerNet: A ML Algorithm for Real-Time Self-driving Steering Control (Research)

Aug 2023 - Present

Tech Stack: Python, NumPy, Matplotlib, Scikit-learn, SciPy, Keras, OpenCV

Github

Developing a new Self-driving steering control model name 'SteerNet' which offers improved accuracy.

#### • Data Analysis of Life Expectancy

Tech Stack: Python, Matplotlib, Pandas, Seaborn, Keras

 $Oct\ 2022$  -  $Nov\ 2022$ 

- Implemented a data analysis pipeline using Python visualization tools and ML models for life expectancy analysis.

• Banking System

Jun 2023

Github

Tech Stack: HTML, CSS, Bootstrap, JavaScript, PHP, MySQL

Github | Website

- Created a dynamic website with a sleek and intuitive user-friendly interface for basic banking operations.

#### • Payment Gateway Integration

Jun~2023

Tech Stack: HTML, CSS, JavaScript, RazorPay API

Github | Website

Implemented and created user-friendly online donation functionality on the website using RazorPay.

• Unit Converter

Jun~2023

Tech Stack: HTML, CSS, JavaScript

Github | Website

- Created a seamless web-based unit converter with instant calculations, supporting metric and imperial units.

• Timer & Stopwatch

Jun~2023

Tech Stack: HTML, CSS, JavaScript

Github | Website

Created a user-friendly web-based timer and stopwatch application for effective time management.

• UPI App Design

Feb 2023

Tech Stack: Figma, UI/UX Designing

Figma

Designed a convenient and efficient UPI interface design for fast and seamless mobile transactions.

#### • Student Database Management System

Dec 2021

 $Tech\ Stack:\ C/C++,\ Linked\ List,\ Structures,\ DSA$ 

Github

Implemented a secure and efficient SDBMS for student management among stakeholders using data structures.

# • Handwritten Digit Recognition

Aug 2021 - Oct 2021

Tech Stack: Python, Keras, Tkinter

Github

Implemented a handwritten digit recognition system using Otsu's method & MLP, achieving 95.6% accuracy.

#### KEY COURSES TAKEN

- Computer Science: Data Structure & Algorithms (DSA), Object Oriented Programming (OOP), Database Management System (DBMS), Machine Learning (ML), Artificial Intelligence (AI), Internet of Things (IoT), Web Development, Computer Networks, Operating Systems (OS), Automata & Formal Language (AFL), Design and Analysis of Algorithms (DAA), Software Engineering, Software Project Management, Compiler Design, Big Data, Data Analytics, Programming Languages, Computer Organization & Architecture, Discrete Mathematical Structures, UI/UX Designing.
- Others: Mathematics, Probability and Statistics, Digital Electronics, Economics, Human Resource Management.

## TECHNICAL SKILLS

- **Programming:** C, C++, Python, Java, SQL, PL/SQL
- Tools & OS: AWS, GCP, Git, VS Code, Jupyter Notebook, Google Colab, OpenAI, Figma, MATLAB, MS Office, MS Word, MS Excel, MS Powerpoint, LaTeX, Red Hat, Ubuntu, Windows
- Libraries/Frameworks: Numpy, Pandas, Matplotlib, Keras, Flask, Tkinter, scikit-learn, seaborn, OpenCV
- Web Skills: HTML, CSS, JavaScript, API

## OTHER SKILLS

- Soft Skills: Problem solving, Critical thinking, Attention to details, Time management, Teamwork, Leadership Skills, Communication Skills, Creativity, Positive attitude
- Languages: English, Hindi

## ACHIEVEMENTS

- Japan's GAIT Exam Achieved a score of 780 in Japan's JTP GAIT assessment, showcasing exceptional performance.
- Class X Excellence Certificate of outstanding performance in class X, Pratibha Sammaan Manch, Prayagraj.
- Science Congress Received certificate of appreciation in 24<sup>th</sup> National Children's Science Congress by Govt. of India.
- Secured 1<sup>st</sup> Position Received 1<sup>st</sup> position in 100 M, 75 M & 50 M race in different years at Prayagraj.

# CERTIFICATIONS

• Hands-on Introduction to Internet of Things with Machine Learning by IIT Kharagpur	Link
• Internet of Things: How did we get here? by Coursera	Link
• Internet of Things: Communication Technologies by Coursera	Link
• Internet of Things: Multimedia Technologies by Coursera	Link
• Red Hat System Administration I 8.2 (RH124)	Link
• Python for Everybody: The Ultimate Python 3 Bootcamp by KIMO.AI	Link
• AWS Academy Introduction to Cloud Semester 1	Link
AWS Academy Cloud Foundations	Link
AWS Academy Data Analytics	Link
AWS Academy Machine Learning Foundations	Link
• MyPerfectice Cognite Game v4.5 Certificate	Link
• UI/UX Bootcamp Certificate by KIIT University	Link
• MATLAB Onramp by MathWorks	Link
• Image Processing Onramp by MathWorks	Link
• Signal Processing Onramp by MathWorks	Link
• Machine Learning Onramp by MathWorks	Link
• Deep Learning Onramp by MathWorks	Link
• HackerRank React (Basic) Certificate	Link
HackerRank Problem Solving (Basic) Certificate	Link
• HackerRank Problem Solving (Intermediate) Certificate	Link