Snehil Sharma

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

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LinkedIn | Github | Portfolio

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	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*
  Data Science Intern — Remote | Certificate
  - 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
  - Contributed to chatbot development, integrating text, speech inputs, and social media for instant support.
  - Cretaed & 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*
  Web Development Intern — Remote | Certificate
  - 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
  - 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
  - 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*
  Tech Stack: Python, NumPy, Pandas, Scikit-learn, SciPy, Matplotlib, Seaborn — Github | Paper
  - 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** *Oct 2022 - Nov 2022*
  Tech Stack: Python, Matplotlib, Pandas, Seaborn, Tensorflow [Github]
  – Implemented a data analysis pipeline using Python visualization tools and ML models for life expectancy analysis.

- **Banking System** *Jun 2023*
  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, Tensorflow, 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
- **Interest/Hobbies:** Aviation, Swimming, Badminton

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 24th National Children's Science Congress by Govt. of India.
- **Secured 1st Position** Received 1st 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*