SNIGDHA PARASHAR

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EDUCATION

- **University of Petroleum and Energy Studies** — Dehradun, India
  *Bachelor of Technology in Computer Science - Specialization in AI and ML; **CGPA: 8.51*** *August 2020 - June 2024*

WORK EXPERIENCE

- **BARCLAYS** — Pune, India
  Summer Intern — *June 2023 - August 2023*
  - During my tenure as a **Product Technology Intern** with Barclays' BUK Technology team, I harnessed my expertise in **JAVA, Spring Framework, Spring Boot, MySQL, APIs,** and leveraged advanced **data structures such as HashMap and Set.** My impactful contributions included implementing cutting-edge **optimization techniques,** notably the **Java Stream API,** resulting in a remarkable **90% reduction** in processing time for **CRUD** operations.
  - My role was distinguished by a profound showcase of exceptional **problem-solving prowess,** in which I assumed a pivotal role in effectively surmounting complex and multifaceted challenges.

- **Reseach Internship** — UPES, Dehradun, India
  Lead Research Intern — *May 2023 - August 2023*
  - Authored and co-authored **2 comprehensive research papers:**
    * Detection of Bird Species through Audio using Convolutional Neural Network.
    * Framework for Reverse Supply Chain using Sustainable Return Policy
  - I **provided leadership and mentorship** to an impressive team of **around 60** junior researchers, cultivating a harmonious and highly productive research milieu. Concurrently, I made substantial contributions to the team's efforts by actively engaging in data collection, experimentation, and rigorous data analysis.

PROJECTS

- **Sentiment Analysis of Social Media Data**: GITHUB
  - Engineered a robust sentiment analysis tool, harnessing the capabilities of the **Twitter API** and driven by cutting-edge **Natural Language Processing (NLP) and Machine Learning (ML)** techniques, to systematically evaluate sentiments in global tweets. In addition, I significantly enhanced user engagement by creating an interactive Python Streamlit GUI, facilitating personalized keyword-driven sentiment analysis.

- **Detection of Bird Species through Audio using Convolutional Neural Network**:
  - Conceived an advanced machine learning solution, deploying state-of-the-art pre-trained **CNN models,** to achieve precision in the identification of bird species from audio calls. Additionally, I crafted an intuitive **graphical interface** for streamlined audio call uploads and instant bird species recognition, thereby augmenting accessibility and usability.

- **Contact Manager: Secure, Scalable, and Efficient**: GITHUB
  - Proficiently developed a feature-rich **backend system,** utilizing **Node.js, Express.js, and MongoDB,** for **RESTful API** functionality. Enabled seamless **CRUD operations,** ensuring secure and efficient data management.

- **OPEN Chatbot**: GITHUB
  - Created an engaging frontend chatbot with **HTML and CSS** to communicate OPEN-Community's mission effectively, bolstering our online presence.

- **OPEN Algorithm Visualizer**: GITHUB
  - Created an attention-grabbing frontend visualizer, **leveraging HTML, CSS, and JavaScript,** to vividly demonstrate various algorithms, including **search and sorting** functionalities.

SKILLS SUMMARY

- **Languages**:   **Python, JAVA,** React, HTML, CSS, JavaScript, **SQL**
- **Tools**:   **GIT, Github, MySQL**
- **Soft Skills**:   **Leadership,** Communication, **Problem Solving,** Collaboration, **Efficiency**

ACHIEVEMENTS AND EXTRA - CURRICULAR ACTIVITIES

- **Secretary** - UPES - IET & UPES - NBSP Communities — *May 2023 - Present*
- **Vice President** - OPEN Community, UPES — *November 2022 – May 2023*
- **Finalist - Northern Regional Round** - Present Around the Network
  Organizer: Institution of Engineering and Technology (IET), Delhi Local Network. — *April 2023*
- **Winner** - OPEN Summer of Code - A month long open-source project contribution challenge
  Organizer: OPEN Community, UPES. — *July 2022*
- Merit based **scholarship** from university.
- **Kathak dancer** trained by Late Pandit Birju Maharaj.