RUDRAKSH CHAKRABORTY

New Delhi, India

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Second-year B.Tech CSE student at Sikkim Manipal Institute of Technology with strong coding skills and growing expertise in AI, data science, and cloud technologies. Worked on deep learning models and API development, with hands-on experience in projects like medical image segmentation and hate speech detection.

A confident communicator and team leader, with a background in debating, and leadership roles such as School President and MUN Director General. Eager to apply both technical and interpersonal skills in meaningful internship opportunities.

KEY COMPETENCIES

- Programming Proficiency
- Problem Solving
- Team Leadership
- · Public Speaking
- Project Management
- Research Skills
- Presentation Skills
- Communication
- 8+ Academic CGPA

PROFESSIONAL EXPERIENCE

1Stop Data Science Analytics

Data Science and Analytics Intern

Dec 2023 - Mar 2024

Worked on a machine learning-based Hate Speech Detection project using Python, Scikit-learn, and NLP libraries. Contributed to model development, data collection via structured questionnaires, and performance evaluation. Managed confidential data and coordinated team meetings, gaining experience in both technical and collaborative aspects of data science.

- Contributed to a research-intensive machine learning project focused on Hate Speech Detection, leveraging natural language processing (NLP) techniques and supervised learning algorithms to build and optimise classification models.
- Actively participated in model development, training, and validation cycles, including data
 preprocessing, feature engineering, hyperparameter tuning, and performance evaluation using
 metrics such as accuracy, precision, recall, and F1-score.
- Designed and deployed data collection frameworks through structured data science questionnaires, enhancing dataset diversity and relevance for improved model generalisation.
- Facilitated seamless team collaboration by scheduling and coordinating virtual meetings, sprint reviews, and internal knowledge-sharing sessions, ensuring project milestones and deliverables were met on time.
- Handled sensitive datasets and confidential documentation with a high level of professionalism and data privacy awareness, contributing to the ethical standards of the research project.
- Gained hands-on experience with tools and technologies such as Python (Pandas, Scikitlearn, NLTK/spaCy), Jupyter Notebooks, Git, and basic data visualisation libraries.
- Developed strong soft skills including stakeholder communication, time management, and cross-functional teamwork within a dynamic and fast-paced research environment.

Google Inc. Oct 2024

Student, Google Cloud Fundamentals and GenAl course

Completed hands-on labs and coding assignments as part of the Google Cloud & Generative Al Program, gaining practical experience in building APIs, deploying notebooks using Vertex AI, and working with cloud-based AI/ML workflows. Covered key topics including model deployment, data handling, prompt engineering, and ethical AI practices, while also preparing technical reports and presentations to summarize project outcomes.

- Completed all course labs and coding assignments focused on Google Cloud and Generative Al technologies.
- Built and deployed **APIs and Jupyter notebooks** using cloud-based tools like Vertex AI and Cloud Functions.
- Gained hands-on experience with data processing, model deployment, and automation workflows in cloud environments.
- Finished advanced modules on Generative AI, including transformers, prompt engineering, and ethical AI practices.
- Prepared and delivered structured reports, presentations, and technical documentation to communicate project outcomes.
- Strengthened practical skills in cloud computing, AI/ML pipelines, and applied problemsolving with real-world tools.

Sikkim Manipal Institute of Technology

Aug 2024 - Present

Academic Research

Working on a personal deep learning project for abdominal organ segmentation using the MICCAI FLARE 2022 dataset, applying CNN-based methods and U-Net architecture. Conducting detailed research and reporting on machine learning and medical imaging topics, while presenting key insights and model evaluation outcomes across academic panels.

- Developing a deep learning model for abdominal organ segmentation using the MICCAI FLARE 2022 dataset.
- Applying advanced medical image processing techniques, including CNNs and U-Net architectures.
- Conducting in-depth research and writing technical reports on machine learning and medical imaging developments.
- Delivered presentations to academic panels, showcasing model training results, evaluation metrics, and insights.
- Strengthened expertise in deep learning, computer vision, and scientific communication.

EDUCATION