

Ruchi

ruchichoudhary94052@gmail.com | [7876609806](https://www.linkedin.com/in/ruchichoudhary94052/) | [Portfolio](#) | [LinkedIn](#)

EDUCATION

Lovely Professional University, India

BTech (Computer Science and Engineering)

Courses –ML, AI, Python, C++, DBMS, G-suite, DSA

CGPA: 7.2

Oct 2020 - July 2024

DAV Sr Sec School, India

High Secondary Certificate

Percentage: 82.6

April 2019 - June 2020

WORK EXPERIENCE

-
- **Software Developer Intern, OSCOWL & CO | Remote** May 2024 - Jun 2024
 - Analyzed drone performance data to identify key metrics, resulting in recommendations that enhanced battery life
 - Collaborated with hardware engineers for effective integration of software and hardware components.
 - **AI and Robotics Intern, STEMpedia | Remote** Feb 2024 – Aug 2024
 - Delivered educational sessions on AI and robotics, with a focus on practical applications and hands-on learning.
 - Integrated robotics and AI concepts into educational projects using Quarky and Pictoblox, enhancing student engagement and learning outcomes.

PROJECTS

-
- **Advanced AI System for Integrated Text and Image Synthesis**
Technologies: Python, TensorFlow, Hugging Face Transformers, Flask Aug 2024
 - Created an AI application that generates contextually relevant text and images.
 - Utilized GPT-2 for text generation and GANs for image synthesis; combined these models into a web application with Flask/FastAPI.
 - Delivered high-quality results with positive feedback on functionality and user experience.
 - **MULTIPLE DISEASE PREDICTION | [streamlit.app](#)**
Technologies: Machine Learning, Streamlit, python libraries Nov 2023
 - Engineered a comprehensive AI solution that leveraged Machine Learning to analyze health data, resulting in 78% accuracy in identifying at-risk patients, will directly improve patient engagement and preventive care initiatives.
 - Engineered intuitive and user-friendly interfaces utilizing Streamlit, driving accessibility across diverse healthcare audiences; helps in reducing customer support issues and improving user satisfaction.
 - Catalyzed collaborative ideation sessions with cross-functional teams, leading to innovative solutions that will increase access to preventive healthcare services and achieve improvement in population health metrics.
 - **BRAIN SEGMENTATION | [github](#)**
Technologies: Machine Learning, computer vision, Analysed Sep 2023
 - Implemented advanced ML algorithms and computer vision techniques with Pandas to analyze brain regions, revealing key patterns and insights into neurological disorders, and enhancing diagnosis and treatment.

- Pioneered a groundbreaking segmentation approach in medical imaging, which garnered recognition in three major industry publications, influencing best practices and positioning the company as a leader in innovative neurological diagnostics.

- **TEXT GENERATION USING MARKOV MODEL** | [github](#)

Technologies: Markov Model, NLTK, Python, analyze

Aug 2023

- Conceived and implemented advanced machine learning algorithms to generate diverse text content, enabling a 40% reduction in content creation time for marketing teams, ultimately boosting campaign effectiveness.
- Flexible application that revolutionized content creation, review generation, and storytelling, will result in increase in productivity and a reduction in time-to-market across multiple domains.

- **CUSTOMER CHURN PREDICTION** | [github](#)

Technologies: Ensemble technique, Random Forest, Matplotlib

Dec 2022

- Leveraging the power of ensemble techniques within Machine Learning, the project aimed to develop a predictive model capable of identifying customers at the highest risk of churning.
- Spearheaded the development of a predictive analytics model that identified at-risk customers, enabling timely intervention, and increasing customer retention.

TECHNICAL SKILLS

- **Programming Languages:** C++ (Proficient), python, SQL
- **Data Science:** NLTK, NLP, Standard ML Algorithms (Regression, Classification)
- **Database:** Mysql
- **Data Analysis:** Numpy, Pandas, Matplotlib
- **Developer Tools:** VS Code, Git, Streamlit, Google colab, Kaggle
- **Coursework:** Data Structures Algorithms, OOPS Concept, Operating Systems, Database Management System, Cloud Computing

ADDITIONAL INFORMATION

- Solved 200+ DSA questions on different coding platforms like Leetcode, GeeksforGeeks, CodingStudio, etc.
 - Developed a lot of Machine Learning Models in last 6 months over Python, Models like Logistic Regression, SVM, Pandas, Matplotlib, Scikit Learn etc.
 - Participated in One India event held at our university and scored second Position in the competition.
 - Participated in Programming Pathashala Hackathon, one of the prestigious hackathons, and got appreciated for the project.
-