

Riya Sachdeva

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EDUCATION

Thapar Institute of Engineering and Technology <i>Bachelor of Engineering, Computer Science</i>	Sep. 2022 – May 2026 CGPA: 8.69
St. Francis De Sales Senior Secondary School <i>High School Diploma</i>	Jul. 2010 – July 2022 XII: 94.6% ; X:96.4%

EXPERIENCE

AWS AI ML Scholar <i>Amazon Web Services</i>	Nov. 2023 – Jan 2024
<ul style="list-style-type: none">Constructed an image classifier for animals and dog breeds using VGGNET, RESNET, and ALEXNETDeveloped a command line application for training, validation logging and GPU support to classify flowers	
Open Source Contributor <i>GirlsScript Summer of Code</i>	Jun. 2023 – July 2024
<ul style="list-style-type: none">Implemented a pest outbreak detection system utilizing data on 5+ metrics like rainfall, humidity & temperatureProduced a facial expression recognition system for stress detection using OpenCV and Deepface	

PROJECTS

Psytle <i>Python, Flask, OpenCV, Langchain, Docker</i> Github	
<ul style="list-style-type: none">Engineered autism detection model and implemented chatbots tailored for parents and patients to provide supportFormulated a focus enhancement quiz section utilizing Deepface to monitor focus and emotional changes during attempts	
Deepword <i>Pytorch, Flask, Scipy, Selenium</i> Github	
<ul style="list-style-type: none">Utilized Selenium for scraping original content and applied similarity search using NLP metricsIntegrated blink rate and micro-expression analysis to assess behavioral consistency	
Sahyog <i>React.js, Flask, Pytorch</i> Github	
<ul style="list-style-type: none">Crafted an ecommerce language translation system, to enhance online shopping for linguistic minoritiesExecuted a translation graph to establish optimal similarity pathways between Indian languages	
Skin Bot <i>Flask, NLTK, pandas, NumPy, PyTorch</i> Github	
<ul style="list-style-type: none">Built a personalized skincare advice chatbot, enhancing user engagement and satisfactionTrained neural network to refine intent recognition and response generation, improving the overall user experience	
SafeKarnataka <i>Python</i> Github	
<ul style="list-style-type: none">Employed HDBSCAN clustering to analyze traffic accident data for accident preventionCalculated severity scores and integrated them with geographic coordinates to develop map system for safer route	
Kalakart <i>Tensorflow, OpenCV, YOLO, Node.js, Express.js, MongoDB, React.js</i> Github	
<ul style="list-style-type: none">Developed a platform merging dying Indian art with Western designs for cultural exchange through style transferCreated portal to collaborate with local artisans for crafting the newly generated designs	

TECHNICAL SKILLS

Languages: Python, C/C++, C# , SQL, JavaScript, HTML/CSS, Solidity, Bash
Frameworks and Tools: React, NodeJS, Express, Django, Flask, PyTorch, Bootstrap, Scrapy, Git, Docker, VS Code

ADDITIONAL DETAILS

Google Developer Student Clubs: Organized workshops and events, fostering skill development among juniors.
Microsoft Learn Student Ambassador: Acquired fundamentals of generative AI and completed 7 capstone projects
GirlUp: Developed the website to raise awareness about menstrual health & gender injustice on campus
Senior Head Girl: Led the student body, promoting positive change and collaboration in high school