Rachit Bansal

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EDUCATION

DELHI TECHNOLOGICAL UNIVERSITY
B.Tech (Electrical Engineering)
2022 (expected) | New Delhi, IND

BAL BHARATI PUBLIC SCHOOL, DWARKA
CBSE Class XII
Percentage: 91.5 agg

BAL BHARATI PUBLIC SCHOOL, DWARKA
CBSE Class X
10 CGPA

LINKS

Github:// **RachitBansal**
LinkedIn:// **RachitBansal**

SKILLS

MACHINE LEARNING AND DEEP LEARNING
Natural Language Processing:
• Transformer Models • RNNs and LSTMs
• BERT and GLoVe Embeddings
Reinforcement Learning:
• Q-Learning Neural Networks • D-QNNs
Computer Vision:
• RCNNs, Fast RCNNs, Faster RCNNs
• YOLO • CNNs
Frameworks:
• Tensorflow • PyTorch • Keras • Numpy
• Pandas • Matplotlib • Scrapy • Selenium
Languages:
• Python

FULL-STACK WEB DEVELOPMENT
Front End:
• HTML • CSS
Back End:
• GET and POST • ejs • Express
Database Management:
• MongoDB
Languages:
• JavaScript

EXPERIENCE

CODING BLOCKS | Teaching Assistant
Machine Learning with Deep Learning Course
- Built projects and course quizzes in collaboration with mentors. - Took Machine Learning workshops and bootcamps at Universities all over the country. - Held up Classes and Doubt Sessions for a batch of around 60 students.
June 2019 - Present | New Delhi, IND

PROJECTS

IMAGE CAPTIONING BOT LSTMs, CNNs, Transfer Learning, Attention Model
Created an Image Captioning Bot which outputs a relevant description in response to an input image. Used various CNN Architectures and obtained the best results using Inception-Net.

CHATBOT LSTMs, PyTorch, Attention Model
Made a Chatbot in PyTorch from scratch using the Cornell Movie Dialogue Dataset

ATARI GAME AGENT USING REINFORCEMENT LEARNING Double Q-Learning Neural Networks, CNNs, OpenAI-Gym
Made a Python Game Agent which beats the average human performance score on various Atari Games.

TEXT AND NOVEL GENERATOR RNNs, GLoVe
A model that returns text of a specified word count and writing style, given textual data of a particular writer. Used Recurrent Neural Networks.

NUMBER PLATE RECOGNITION AND TEXT EXTRACTION CCA, SVC, OpenCV, Firebase
A model which uses Connected Component Analysis (CCA) and Support Vector Classifier (SVC) to extract the digits on a Number Plate which is further uploaded to Google Firebase to be used in an android application that monitors the vehicle activity in a parking lot. Created at IIT-Delhi's Paytm Hackathon, 2019.

POSITION OF RESPONSIBILITIES

CO-FOUNDER
Code To School, an initiative wherein our team collaborates with schools across the country and teach high school students various programming languages and computer science skills.

CO-VICE PRESIDENT
D-CODER, The Official Technical Society of DTU

CONTENT HEAD
Sahitya, The Literary and Debating Society of DTU