

Shivank Yadav

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Education:

Bachelor of Technology (B.Tech.), Computer Science (2017 – 2021)

SRM Institute of Science and Technology Chennai. | CGPA: 8.30/10

XII (Senior Secondary), Science

Year of Completion: 2016 | CBSE Board (B.V.B. Vidyashram, JLN Marg, Jaipur) | Percentage: 82.20%

Internships/Projects:

PROBLEMS	SOLUTIONS
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Machine Learning Intern: Energica ASPL (Chennai), Jun 2019 - Jul 2019

Seamless data collection from AADHAR, Driving Licence, Health Docs. , etc	Created OCR templates using <i>Tesseract lib. and Google APIs using Python</i>
Easily analyse data on Anti-money laundering(cases/flags).	Created visual dashboard using <i>Sigma software and snowflake database manager.</i>
Identifying and flagging potential fraudulent transactions.	Worked on Rule based flagging engine. Test data generation using <i>Mockaroo.</i>

Computer Vision Intern mPass Visitor Management Service. (Jaipur), Jun 2018 - Jul 2018

How to allow secure and automated visit?	Implemented a facial verification engine (between ID and face) using <i>python's face-recognition, OpenCV</i> and other libraries.
How to Digitize ID based entry/logging system?	
Acquire customer base and marketing.	Ran an ad campaign using <i>LinkedIn ads manager and Google analytics</i>
Acquire data on viable clients or competition.	Found leads using web scraping (<i>third party apps and python</i>)

Workout.ai Aug 2019 - Aug 2019, (TechNux Hackathon 2019)

How can someone learn new exercises and in right positions?	We created a Vision based pose correction system and added exercise self-learning functionality to it. Python's <i>AlphaPose model,NLTK, DS libraries</i> were used.
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BananaPicker-Navigation May 2020(Reinforcement Learning on 3D environment)

Can we make an artificial agent to learn how to navigate in a 3D world avoiding obstacles?	We train an agent to maneuver in a 3-D environment avoiding blue bananas and picking yellow ones as fast as possible. Used Unity ML agents, Pytorch and DQN algorithm.
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LunarLanderAgent May 2020(Reinforcement Learning on 2d Simulation)

Can we make an artificial agent to learn how to land a Lunar Lander spacecraft on Moon? Here is a simulation.	We apply DQN algorithm to make an artificial agent learn how to land space-craft on Moon. Used Pytorch and OpenAI Gym LunarLander-v2 environment
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BlackjackAI May 2020(SRM university Minor project)

Can we teach an artificial agent to play the game of Blackjack?	Taught an agent to play BlackJack applying model-less reinforcement learning using Python and OpenAI Gym
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MultipleFaceRecognition-AttendanceSystem Apr 2019 - Apr 2019, (Mozohack hackathon 2019)

Application to Take attendance of a class/group all at once, not disturbing the teacher teaching.	Through a single wide-angle camera, we detect Multiple faces, recognize them and mark attendance. (works on Images, Web-Cam footage, Phone camera's footage in real time). Uses <i>python's face-recognition, OpenCV</i> and other libraries.
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Boston_housing Predictions. Sep 2018 - Sep 2018

Data about Boston housings is given. Extract insight from the data and present it.	Predicted the best selling price of a particular house in that area. <i>Using python and ML models from sciket-learn.</i>
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Hospital No-Show EDA Aug 2018 - Aug 2018

This dataset collects information from 100k medical appointments in Brazil and is focused on the question of whether or not patients show up for their appointment.	Solved this problem by performing Exploratory Data Analysis.
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Concept notes:

How to digitalise a doctor's prescription? (mEngage start-up use case)How to digitize the prescription process?	We can start training the model on handwritten data for a specific doctor covering all alpha-numeric keywords and symbols. And to improve it, we can feed in hundreds of prescriptions.
How to analyse blood composition from a blood smear?	Researched about of Shonit, a product BY SigTuple that uses ensemble of deep learning models to analyze peripheral blood smear images for localization and classification of the three major blood cell types.

All the above projects can be accessed on my **GitHub**-> <https://github.com/ShivankYadav>

My **LinkedIn** -> <https://www.linkedin.com/in/shivank-yadav-9b3986158>

Positions of Responsibilities:

- Ex- Member in GenY Club SRMIST.
- Ex- Associate in Next Tech Research Lab SRMIST

Skills:

Machine Learning, Computer Vision, NLP, Data Science (Pandas, Matplotlib, etc), PostgreSQL, MySQL, Python, C++/C, Java.

Extracurricular:

Member of Blooming Beacon NGO SRMIST where I helped in supplying clothes to underprivileged.

Participated in intra-college football competition and lost miserably.

