

Personal Information

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GitHub

🔏 LinkedIn

Interests

- · Machine Learning
- Full Stack Web Development
- Natural Language Processing
- Robotics
- Android App Development
- Game Development

Highlights

Database Development

Android Development

(4) Web Development

≡: Software Engineering

Machine Learning

Natural Language Processing

Robot Operating System

Arduino

Name: Manu Parashar

Determined, diligent and a graduate in Computing Science from University of Alberta. I am seeking an opportunity to use my hard work and technical skills to help create and innovate solutions for modern problems in the 21st century.

University of Alberta – Academic Status

Computing Science, BSc Specialization

Completed December 2021

Grade Point Average (2020-2021)

3.0

Computer Experience

Programming Languages: C, C++, Python, Java (Android), MySQL, RISC-V Assembly, C# (for Unity3D), HTML5, CSS3, JavaScript

Other Software: VS Code, LoggerPro, Microsoft and Google Suites, Linux, Robot Operating System (ROS), git, GitHub, Docker, Heroku, Django, Unity3D, Android Studio

Hardware Applications: Arduino

Activities

HackED 2020

January 2020

• Created a mobile **cross platform** app for android and iOS that enables users to incorporate image processing capabilities using **OCR** (Optical Character Recognition) and **object detection**. For OCR outputs the user is able to either open a link (if applicable), run a valid search query through google search or translate the text into a different language using Google translate API. We managed to obtain a trained model for object detection and also link the Firebase google cloud Tensor flow API to highly increase OCR accuracy.

Link: Link To Project

NASA CSA Space Apps Challenge

October 2019

- Won **first prize** for the challenge SCISAT **Canada's Atmospheric Chemistry Experiment** for being able to identify differences in gas concentrations and predict some atmospheric events in Arctic Region based on some satellite data.
- Designed an application to retrieve satellite data from an FTP server with Python and displayed all the analyzed data with multiple graphs on a webpage. Link: Link To Project

HackED 2019

January 2019

- Designed a web scraper application using Python and **Django** to retrieve information from yahoo finance website for any requested stock and display information on local server in a formatted way for easy data analysis.
- The main need for such an application was the discontinuation of yahoo finance API which made user analysis using years of data harder.

Link: Link To Project

Languages Known

English

Hindi

French (beginner)

Other Skills

- UML
- Design Patterns
- OOP
- Data Structures
- Algorithms
- Makefiles
- SQLite
- Dynamic Programming
- Q-Learning
- SARSA
- Autoencoders
- Deep Neural Networks
- Bootstrap
- Android Studio
- ER Diagrams
- Decision Trees
- Convolutional Networks
- Heuristic Search
- Monte Carlo Tree Search
- AJAX
- FSM
- A* Search
- Reinforcement Learning
- Regular Expressions
- N-Grams
- Naïve Bayes
- Sentiment Classification
- Context Free Grammars

Projects

- <u>LinkedSpace</u> A social media web platform which is interconnectible to other platforms using REST API. Video Demo
- Mood Space A social media android app which focuses on moods.
- <u>ChatbotNLP</u> Implementation of Chatbot using Intent Classification.
- Quadris Tetris with modified rules.
- **PSDCA** Face Mask Detection in live video feed.
- <u>Gomoku Players</u> Implementation of Monte-Carlo Tree Search for the game of Gomoku.
- ROS Navigation Navigation Stack for Summit XL robot.
- RL Robotics TD Learning algorithms for Drone Parrot.
- **PETTHEBOT** IRC twitch bot I created for fun. Deployed using Heroku.
- <u>TwoSentenceHorror-Dataset</u> A dataset containing 23000 two sentence horror stories from the subreddit r/TwoSentenceHorror created using Pushshift-API.

Research

• Comparing "Surprisal" in Language Models (Link to Paper)

Certificates

- The Web Developer Bootcamp 2021 Udemy
- Code Foundation for ROS TCS
- Deep Learning Essentials IBM
- IBM Blockchain Essentials V2 IBM
- Android Application Development
- 5 day Leadership program by King's College London

Work Experience

IT intern

(July 2018 - August 2018)

Dover India Innovation Centre (Bengaluru, India)

Experience in Developing and Designing Dover India Intranet using MS SharePoint.

Web Developer Intern

(July 2021 - August 2021)

Astute Arrow SMART Digital Transformation (Remote)

- Worked as front end developer of the website.
- Participated in team meetings and gathering requirements.

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