ARUN KUMAR MARNDI

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Sydney, New South Wales, 2033

EDUCATION

University Of New South Wales *July 2018 - Present*
Masters in Information Technology(Artificial Intelligence Specialization)
Department of Computer Science and Engineering
Sydney,New South Wales,Australia

KIIT University *2013-2017*
Bachelors of Computer Science and Engineering
Department of Computer Science and Engineering
Bhubaneswar, India

RELEVANT PROJECTS

Poker Dice Simulator Academic Project
February 2020-March 2020

- Wrote python code to implement Poker Dice that simulates the rolls of 5 dice
- Evaluate the probabilities of the various hands and return its results

Diff command internal working using python Academic Project
March 2020 - April 2020

- Analysed the requirements of the project and referenced the research paper implementing the diff command
- Studied dynamic programming technique and implemented it using python
- Breaking down program into modules using object oriented programming techniques

Shrug(Shell-running-git) Academic Project
June 2020 - July 2020

- Creating a subset of version controlling system called git
- Understanding the syntax and semantics of git commands
- Creating the git equivalent commands by writing its internal workings using Dash shell interpreter

Shell compiler Academic Project
July 2020 - August 2020

- Wrote a compiler using Perl
- Takes shell file as input and generates the equivalent Perl script

Traffic Control System Academic Project
October 2020 - November 2020

- Wrote assembly code for traffic systems simulation
- Implemented it on the ATMEGA2560 Microprocessor as a part of academic project

Temporal Planner Academic Project
June 2021 - July 2021

- Created a Temporal Planner using python that schedules tasks with minimum cost

· Implemented constrained optimization problem to eliminate unwanted task times and A* search algorithm to reach the goal state
· Returned the schedule with optimal cost incurred

Text Classification of BBC news Articles Academic Project
July 2021 - August 2021

· Preprocessing of BBC news articles.
· Used Bernoulli Naive Bayes and Multinomial Naive Bayes classification as per the requirement of the project to classify news into various categories.
· Applied user defined model (Logistic Regression) with an accuracy rate of 99%.
· Comparative analysis of all the models used on this project.

Japanese Character Recognition Academic Project
October 2021

· Recognition of handwritten Hiragana symbols using Convolution Neural Networks.
· Improving the accuracy of recognition to 93% after modifying the convolution layer and its parameters.

Cat Breed Classification Academic Project
October 2021 - November 2021

· Designed a neural to network to classify various cat breeds from a set of images
· Improved model performance by hyper-parameter tuning
· Reached a testing accuracy of approximately 90% (top 1% of our cohort).

RELEVANT COURSES

Core Courses
Principles of Programming,Software Construction, Database Management System,Artificial Intelligence, Microprocessor and Interfacing

SKILLS AND INTERESTS

Programming Languages: C,C++,Python
Tools: LaTeX,Bash Shell Scripting
Web Development: HTML5,CSS3,Javascript

EXTRACURRICULAR ACTIVITIES

- Participated in various Model United Nations for at the national and international level
- Worked as a Social Activist at TPH (The Philanthrophy Hand) Society during my undergraduate career.
- Worked as graphic designer to design stickers for cars at SAE INDIA KIIT during my undergraduate career.
- Member of UNSW Game Development Society
- Member of CSE Society at UNSW

AWARDS AND HONOURS

- Distinction in Neural Networks(COMP9444) and Computer Vision(COMP9517) during Master's degree.