ANUKUL PARAJULI

Undergraduate of Computer Engineering
Kathmandu University

EDUCATION

Kathmandu University
BE in Computer Engineering
   Aug 2016 - December 2020
   CGPA : 3.69

Ambition Academy
+2 (PCM)
   July 2014 - Jun 2016
   Percentage = 86.8%

EXPERIENCE

Research Internship
Nerd Platoon
* Studying the foundations of Linear Algebra and Probability theory
* Working with scraping tools to automate data scraping and store scraped data in the database

Quality Assurance Internship
8Square Infotrans

* Worked both as a technical writer and a Quality Assurance Tester
* Prepared FSD with process diagrams for more than 4 projects
* Wrote test cases and tested quality of software apps

Event Manager for Yomari Code Camp 2020
Kathmandu University

* Worked in bringing participant teams for the event

Designer
IT Express 2019

* Worked as one of the lead designers for IT Express 2019 (annual IT magazine of Department of Computer Science and Engineering)

Executive Member
Kathmandu University Computer Club (2018 - 2019)

* Successfully conducted IT Meet 2019 (annual IT programme of the university)
* Managed a team of designers for IT Express 2019 as a designer myself

HONORS AND AWARDS

* Awarded a gold medal and token of love from Ambition Academy for academic excellence in HSEB exams

TECHNICAL SKILLS

Programming Language Skills

* Python, Php, C#(Unity Engine), Javascript Java (Android Development)

Tools

* Django, Node js, Jupyter Notebook, numpy, openCV, Keras, Tensorflow, pandas, Conda
* Unity Engine for game development

Natural Language Skills

* Fluent in Nepali and English language
* Can use Hindi for conversation purposes

MAJOR PROJECTS AND MY ROLES

Breast Cancer Detection using CNN

* Modelled a CNN for the project and calculated all the required mathematical gradients for backpropagation
* Implemented the modelled CNN in python from scratch to detect whether a given input image patch of a whole mount sample contains IDC (a form of breast cancer) or not

Nepali Text Summarizer

* Made a Django web application that summarizes recent nepali news from the internet, similar to a keyword entered by the user in the application

Real News Recommendation system

* Implemented a recommendation system using Django that recommends relevant news to users based on their click behavior (wrote a simple transition probability algorithm)

Rentspace

* Implemented search function and image upload function for an android application that lets users find available rooms around them and lend rooms to others as well

Kinmail

* Worked on the core system mechanics and implemented real-time chat system for an e-commerce website that lets users buy and sell second hand products online using php and ajax (javascript)

Quizzed Adventure

* Designed the character, environment and core mechanics for a platformer game, made using SFML library (C++)

MINOR PROJECTS

Computer Vision Basics

* Implemented Canny Edge Detector for detecting edges in an image from scratch in python
* Implemeted K-means++ algorithm for color quantization of an image in python from scratch

Mark for freedom

* Wrote the backend system for a web application that allows people to report child labor or abuse as a part of Yomari Code Camp 2018

Blockchain

* Implemented a simple blockchain and cryptocurrency using Flask framework

Handwritten Digit Recognition

* Implemented a simple ANN from scratch in python that recognizes and classifies handwritten digits

Gravitational Field Simulation

* Made a gravitational field simulation in Unity3D with UI that lets the user change parameters for the simulation

Kitty Game in python

* Made a simple Kitty card game program in pyhton from scratch that plays with specified number of users and shows the results of the game

PUBLICATIONS

Research Paper

* Parajuli, A. et al.(2019) "Comparative Analysis between Moodle and Self-Made Learning Management System" *KEC Conference 2019*

Magazine

* Designer *IT Express 2019,* Kathmandu University Computer Club (KUCC)

PARTICIPATIONS

* Yomari Code Camp 2018

* Participated in Hult Prize KU 2019 with a startup idea

* Volunteered for Software Competition in IT Meet 2018

* Volunteered for Machine Learning Workshop conducted as an IT Meet pre-event 2020

CONTACTS

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in https://linkedin.com/in/anukulparajuli/