Amman Das

Junior Developer

Passionate about learning new technologies with a hands-on approach. Strong problem-solving skills. Expert in python, Java & C++ Experience with Agile workflow in Android app development. Knowledge of AI theory, core programming concepts (OOP), SQL, algorithms & data structures. Commands excellent interpersonal & communication skills, and an optimistic attitude.

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in linkedin.com/in/amman-das-9b0069213   github.com/AMMAND3

EDUCATION

BS Honors in Computing Science
University of Alberta, Canada

09/2020 - Present   *Pursuing*

Achievements

- Currently working as an Assistant Researcher for AI under a professor, worked on GANs
- Using Scrum practices, built a Meal Tracker android app with a group of 4
- Avg Yearly 3.4 GPA

WORK EXPERIENCE

Assistant Researcher for AI
University of Alberta

10/2022 - Present   *Edmonton, AB*

Assisting my Supervisors with their respective AI & ML research

Achievements

- Currently working on improving GAN implementations for classifiers, reduce bias amongst sensitive attributes
- Tasked with building synthetic data for data groups with small sample size and minimize loss on their predictions
- Solution so far is to upsample on correlated features between datapoints to lower overall prediction loss
- Supervisors include PHD students, professors who have motivated & helped learn graduate level ML material
- AI, ML, python, tensorflow, pytorch

Data Science Intern
Data Glacier

05/2022 - 06/2022   *Remote*

Learned the fundamentals of Data Science

Achievements

- Acquired knowledge about data science fundamentals (regression, classification, data prep) and its applications
- Worked on real-life databases to analyze extracted data
- git version control, tableau, excel

PROFICIENCIES

Programming Languages
Python, Java, C, R, Julia, C++

Software Development, AI & Data Concepts
Agile (Scrum), Data Structures & Algorithms, OOP, AI theory in ML, Probability Theory, Linear Algebra, Git Version control

ML, Data Analysis & Visualization Tools
Keras, Pytorch, Pandas, NumPy, Scikit-learn, Matplotlib, SQL, MongoDB, data-wrangling software JSON, Tableau, MySQL, Excel, MS Office, PPT

HIGHLIGHTS OF QUALIFICATIONS

- Expert in languages python, Java, R , C/C++ and important programming concepts (OOP), data structures & algorithms
- Experience in agile (scrum) practices for android app development with Git, able to break large epics into small user stories with accurate estimates through story points
- Knowledge of AI theory in machine learning with experience debugging algorithms for neural networks
- Commands exceptional problem-solving & critical thinking skills demonstrated both academically & professionally
- Self-motivated with an independent work ethic and possesses exceptional time-management skills, with excellent communication skills and a collaborative nature

PROJECTS

github.com/AMMAND3 (All Projects)

Meal Tracker Android App - Agile group project (android studio, firebase, Java)

- App that assists in meal planning; allows one to track their food storage, record their recipes, plan their meals for several days, and prepare shopping lists
- Using Scrum practices with a group of 4; Currently contributed 6 commits with nearly 13000+ lines of code pushed
- User stories formed with appropriately assigned story point estimates. Initial storyboard and UML diagrams created for reference
- https://github.com/CMPUT301F22T29/Project

Computer Vision Lane Identification (openCV, python)

- Created a detection algorithm for lane lines using OpenCV
- Understood the fundamentals of computer vision & its application in the foundation of self-driving mechanics

Wordle Word Opener (python, tensorflow, pandas)

- With an initial numerical representative distribution of all 5-letter words, a machine learning (unsupervised) model is used
- Concept is to find the word with the highest "similarity" to all possible Wordle solutions

Cafeteria Management System (C++, MySQL)

- Cafeteria Management System with a Canteen class, and programmed functions such as show, soldItems, addNewItem, deleteItem, searchByName etc