Manos Chandra Roy
Data Science Intern

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🌐 https://aiwithroy.github.io/portfolio/ • 📍 Amashu Kukrul, Rangpur City, Rangpur, 5400, Bangladesh

🐙 aiwithroy • 🔗 aiwithroy • roydatascientist

An independent and self-motivated Data Science Intern with proven ability and 2+ years of experience in developing web application using full stack and Data Science and Data Analysis projects with Data Structures and Algorithms. Recognized by colleagues, and peers as a personable, dedicated performer who demonstrates innovation, communication, and teamwork to ensure quality, timely project completion.

Skills

Programming languages
8
C   C++   Python   JavaScript   SQL

Machine learning libraries and frameworks
8
TensorFlow   Keras   scikit-learn   PyTorch

Data manipulation and analysis tools
9
pandas   NumPy

Data visualization tools
8
Matplotlib   Seaborn   Tableau   Power BI

Big data technologies
6
Hadoop   Spark

Computer Vision
8
OpenCV

Statistical analysis and modeling techniques
8

Data preprocessing and feature engineering
8

Data cleaning and wrangling
8

Natural language processing (NLP)
8

Deep learning and neural networks
8

Time series analysis
8

Version control systems
8
Git

Database management systems
8
MySQL   PostgreSQL   NoSQL

Work Experience

iNeuron Intelligence Pvt Ltd
Data Science Intern
(15 May 2022 - 22 September 2023)
• Proactively contributed to Body Mass Index from Face Images project, besides product development & PoCs.
• Worked on intelligence, development and integration of face detection using Deep Learning techniques.
• Worked on improvement of accuracy of this BMI project.
🔗 https://ineuron.ai/

The Sparks Foundation
Data Science and Business Analytics Intern
(25 September 2023 - Present)
Data Science and Business Analytics Project.
• Examining transaction data to uncover patterns and insights for optimizing product placement and cross-selling strategies; and data-driven dashboard development. • Creating interactive dashboards using visualization tools to provide real-time insights for informed decision-making. • Gaining practical experience in data analysis, modeling, and data visualization techniques while contributing to valuable business outcomes.
🔗 https://thesparksfoundation.info/

Projects

Body Mass Index from Face Images
Building a model to predict the BMI (body mass index) of a person from an image of their face. This project borrows from another project made to classify the age and gender of a person using the input of their face, including the weights of a trained model and a script used to dynamically detect a user's face with their webcam. In addition to being an interesting machine learning problem, predicting BMI in this way could be a useful tool in medical diagnostics.
(15 May 2022 - 19 September 2023)
🔗 https://github.com/aiwithroy/Body-Mass-Index-from-Face-Images
Technologies: Deep Computer Vision

Facial Expression Recognition using Machine Learning
Facial Expression Recognition refers to sentiment analysis and automatically detects 7 basic human emotions which are happy, sad, angry, fear, disgust, surprise and neutral. It has drawn major attention in various fields as it has pertinent applications in today''s world such as marketing, entertainment, psychology, clinical practice, surveillance etc.
(12 March 2022 - 07 June 2022)
🔗 https://github.com/aiwithroy/Facial-Expression-Recognition-using-Machine-Learning
CNN   cv2   keras   tensorflow

Analyzing Historical Stock Revenue.
• This project is developed as assignment of IBM course work.
(10 May 2022 - 31 May 2022)
🔗 https://github.com/aiwithroy/Analyzing-Historical-Stock-Revenue-Data-and-Building-a-Dashboard
BeautifulSoup   yfinance   bs4   plotly

Breast Cancer Prediction
I extracted features of breast cancer patient cells and normal person cells. As a Machine learning engineer / Data Scientist, I created an ML model to classify malignant and benign tumor. To complete this ML project, I applied the supervised machine learning classifier algorithm.
(01 June 2022 - 18 June 2022)
🔗 https://github.com/aiwithroy/Breast-Cancer-Prediction-using-Machine-Learning-Techniques
sklearn   seaborn   xgboost   Flask

Students Mark Prediction
This system aims to predict student's marks. The idea behind this analysis is to predict the marks of students by their studying hours.
(01 June 2022 - 16 June 2022)
🔗 https://github.com/aiwithroy/Students-Mark-Prediction
Numpy   Pandas   Matplotlib   Seaborn
Scikit Learn   Linear Regression

House Sales Prediction
This project was completed using a dataset acquired from Kaggle. This dataset contains house sale prices for King County, which includes Seattle. It includes homes sold between May 2014 and May 2015. The goal of this analysis is to predict the price of housing for 2016 in King County based on the variables provided in the dataset.
(15 May 2022 - 31 May 2022)
🔗 https://github.com/aiwithroy/House-Sales-Prediction
Regression algorithms

Education

Jahangirnagar University
MSc, Computer Science
3.77 out of 4.00
(01 January 2020 - 31 December 2021)
Data Structures, Human Computer Interaction, Algorithms Analysis and Design, Database Systems, Embedded System Engineering, Machine Learning, Computer Networks, Digital Image Processing, Data Mining, Software Design and Development, Advanced Database Management System, Neural Networks
🔗 https://juniv.edu/

Daffodil International University
BSc, Software Engineering
3.43 out of 4.00
(01 January 2014 - 18 June 2018)
Programming and Problem Solving, Data Structure & Algorithms, Digital Electronics, Object Oriented Programming, Database Management System, System Analysis & Design, Software Design and Development, Artificial Intelligence, Project Management, Management Information System, Cyber Security
🔗 https://daffodilvarsity.edu.bd/

Certifications

Applied Data Science with Python
University of Michigan
(22 March 2022)
I have gathered some knowledge of how to apply statistical, machine learning, information visualization, and text analysis techniques to gain new insight into data using python.
🔗 https://www.coursera.org/

IBM Data Science
IBM
(21 April 2022)
In this Professional Certificate I developed and honed hands- on skills in Data Science and Machine Learning. I started with an orientation of Data Science and its Methodology, became familiar and used a variety of data science tools, learned Python and SQL, performed Data Visualization and Analysis, and created Machine Learning models. In the process I completed several labs and assignments on the cloud including a Capstone Project at the end to apply and demonstrate my knowledge and skills.
🔗 https://www.coursera.org/

Awards

IT and Korean Language contest.
World Friends IT Volunteers from Chungnam National University (CNU)
(22 July 2014)
Top 5 at IT and Korean Language contest.

References

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