GUNJAN KUMAR MISHRA

Programmer | Developer | Learner

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Info

Electronics, Communication and Information Engineer. Currently engaged in Data Science, Machine Learning and AI.

Experience

Jr. ML Engineer | Omdena | Remote — 30 APR - present

Chatbot Based Support for Mental Health and Well Being
Project based

Applied Data Science Lab | Worldquant University — 17 MAR - 24APR

- *Housing In Mexico*

Clean and combine messy data | Examine correlation between variables | create insightful visualizations like histogram, scatterplots and bar charts.

- *Housing in Buenos Aires*

load multiple CSV files into pandas Dataframe | Clean messy data using Wrangle function | Create ML pipeline with feature encoding and imputation | Create insightful visualizations like Mapbox scatterplot, heatmap and bar charts.

- *Air Quality In Nairobi*

Get data from MongoDB database | Explore and clean time series data | Build autoregression models | Tune hyperparameters

- *Earthquake Damage In Nepal*

Extract data from a SQL database | Perform a randomized train-test split | Build a logistic regression model for classification | Build a decision tree model for classification | Tune hyperparameters

- *Bankruptcy In Poland*

Navigate a file system using the command line | Load and save files using Python | Work with imbalanced data using resampling | Build ensemble models like random forest and gradient boosting trees | Evaluate a classification model using precision and recall

- *Consumer Finances In USA*

Conduct complex exploratory data analysis on one of the biggest datasets in the DS lab, and compare sub-populations using a side-by-side bar chart | Apply key concepts of unsupervised learning into practice by building an k-means model | Conduct feature selection for clustering based on variance | Reduce high-dimensional data using principal component analysis (PCA) | Design, build and deploy a Dash web application.

- *DS Admissions in WQU*

Build a choropleth map to show the distribution of ADSL students around the world. | Create a custom Python class to implement ETL processes. | Design an experiment and analyze the results using a chi-square test. | Build an interactive web application that follows a three-tiered design pattern.

- *V*olatility on the Bombay Stock Exchange

Get data from a web API by making HTTP requests. | Transform and load data to a SQL database using custom Python classes. | Calculate asset volatility and build a GARCH model to predict it. | Build your own web API and server to serve your model's predictions.

Internship | The Sparks Foundation — Feb 2023 - Mar 2023

Data Science and Business Analytics

During the period, completed the following tasks:

- *Prediction using Unsupervised ML using Iris Dataset*
- *Exploratory Data Analysis - Retail on SampleSuperstore dataset*
- *Prediction using Decision Tree Algorithm*
- *Stock Market prediction using Numerical and Textual Analysis*

Senior Associate | Vulcan Inc. — Nov 2020 - Jul 2022

Broadcast Media Production and Distribution

- *Data Analysis of server feed for live event updates.*
- *Analyzed server feed for live event updates to improve process efficiency , produced ideas for a new product portfolio and monitored live video feeds for technical issues and resolved events in real-time.*

Personal Projects

Sentiment Analysis

Feb 2023

- *Built a ML model using NLP that determines if the given review is positive, negative or neutral. The model was trained using amazon review dataset from kaggle.*

Isolated Sign Language Detection

Mar 2023

- *Built a ML model using Computer vision and OpenCV to identify signs made in processed videos using asl-signs dataset from kaggle*

Ball Tracking and LBW

June 2022 - March 2023

- *Generate real time ball tracking and using it to review controversial umpire decisions used in cricket games.*
- *The system uses a single camera for the process.*
- *The system detects the ball using ball tracking, identifies the area of impacts the ball made, and predicts the possible trajectory of the ball to determine if it is hitting the stumps or missing and if hitting then by what margin.*

Fake News Detection

Feb 2023

- *Generated a Machine learning model using dataset from kaggle and used that model to predict if the given news is real or fake.*

Cats vs Dogs

Jan 2023

- *Made a neural network that determines if the given image is of a dog or a cat*

Education

Bachelor's in Engineering(B.E) | Electronics Communication and Information

Paschimanchal Campus, IOE, TU. Lamachaur, Pokhara, Nepal
Nov 2018 - April 2023

Involvement

Broadcast Engineer | Broadcast and IT Solutions

South Asian Games 2019
Dec 2019 (10 days)

- *Live Streaming of South Asian Games 2019 held in Pokhara, Nepal. The games included Women's cricket, Women's football, Handball, Badminton, Archery.*
- *Configured and developed a fully automated system for broadcast of all South Asian Games events.*
- *Significantly increased user engagement on the platform and reduced latency.*

Member | AI Accelerator Institute

Feb 2023 - Present

Skills

Programming

C Programming | Object Oriented Programming with C++ | Python Programming | JavaScript | SQL | NoSQL

Machine Learning and AI

- *Numpy | Pandas | Matplotlib | Plotly Express | Seaborn | Keras | SciKit-Learn | Tensorflow | Keras | Machine Learning Algorithms and Implementation | Deep Learning*
- *Computer Vision | Natural Language Processing | Azure AI Cognitive Services | Convolutional Neural Networks*

Data Science And Engineering

- *Numpy for numericals, Pandas for data analysis and manipulation and Matplotlib for data visualization. Keras, Tensorflow, Scikit-Learn in Machine learning projects. | Jupyter Dash Application on Notebook*
- *Advanced Python | NoSQL - MongoDB | SQL | AWS DynamoDB*
- *PowerBI on Notebook | Building a Data Pipeline on AWS | ETL processes on Data Warehousing and Bussiness Intelligence | Managing Data Workflows | Data Structures and Schema Designs | working with JSON files.*

Web Development and Designing

- *Django and Flask frameworks| Bootstrap Css | Html/Css/Js*
- *Also developed my personal portfolio using Html/Css/Js hosted on free github hosting. Link - mgunjan67.github.io .*
- *Used Figma for UI/UX designing.*

AWS Fundamentals Specialization

- *AWS Cloud Technical Essentials (Compute and Networking | Storage and Databases | Going Serverless)*
- *Addressing Security Risk*
- *Migrating to the Cloud*
- *Building Serverless Applications*

Problem Solving and Project Management

- *Certified by HackerRank for Problem Solving with Data structure and Algorithm.*

Data Wrangling with MongoDB, Web Scraping with Beautiful Soup

Jupyter Dash Application

Git and GitHub

Badges

- Microsoft Certified : Azure AI Fundamentals

  Skills
  - *Azure Bot Services*
  - *Azure Machine Learning*
  - *Cognitive Services*

  credentials : https://www.credly.com/badges/14a8a329-0eb3-4888-8dbb-069fdab9564b/linked_in_profile

Certifications

- *Code With Coffee 2019 | Runner Up | By i-CES, Paschimanchal Campus*
- *Hult Prize 2019 | Campus Representative | Paschimanchal Campus*
- *Machine Learning Specialization | Deeplearning.AI*
- *AWS Fundamentals Specialization | Coursera*
- *Microsoft Certified : Azure AI Fundamentals*
- *Python for Data Science | CoRise*
- *Autonomous AI For Industry | University of Washington*
- *Problem Solving | HackerRank*
- *Refer to link for all certifications - https://drive.google.com/drive/folders/1AfRXUzx8DvJYs5EaxEPWwKngVC6ySIZw*

Social Profiles

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https://github.com/mgunjan67/

https://mgunjan67.github.io/

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