Vaibhav C D

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Education

National Institute of Technology Karnataka — Dec 2020 – Present
Bachelor of Technology in Metallurgical and Materials Engineering — *CGPA – 7.17*

St.Ann's PU College — 2019
II PU State Board — *Percentage – 93.67*

Venkat International Public School — 2017
Class X CBSE Board — *CGPA – 10.0*

Experience

Summer Intern — Jun 2023 – Jul 2023
Department of Electronics and Communication,NITK — *Mangaluru, KA*

- Worked on a Project Titled – Deep Learning Algorithms for Metal Surface Defects Detection
- Implemented AlexNet, Vgg16 and ResNet architectures
- Improved the models through Hyperparameter Tuning, Regularization, and Dropout
- Evaluated the models based on Accuracy, Precision, Recall and F-1 Score

Projects

Air Quality Index Predictor | *Python, Beautiful Soup, Seaborn, Scikit-learn*

- Scraped data from a weather forecasting website using Beautiful Soup
- Pre-processed data and selected features using Numpy, Pandas and Seaborn
- Applied Linear Regression, Decision Tree Regression, Random Forest Regression, XgBoost Regression, and K Nearest Neighbor Regression (KNN)
- Evaluated the models based on Mean Absolute Error (MAE), Mean Squared Error (MSE), Root Mean Square Error (RMSE)

Fake News Classifier | *Python, Matplotlib, NLTK, Scikit-learn*

- Used NLTK to pre-process text data from dataset found on Kaggle
- Used TF-IDF Vectorizer to transform text to feature vectors
- Applied MultinomialNB Algorithm and Passive Aggressive Classifier Algorithm
- Evaluated the models based on Accuracy

Positions of Responsibility

Executive Member — Oct 2021 – Present
Institution of Engineers, NITK Chapter — *Mangaluru, KA*

- Was part of Garage and Capital Special Interest Groups (SIGs)
- Was responsible for brain storming project ideas and Mentoring juniors
- Worked on a Project Titled – Heat Transfer Analysis of Engine Fins and presented it at Annual Project Expo

Technical Skills

Languages: Python, C, SQL(MySQL), Shell Scripting (Bash)
Developer Tools: Git, VS Code, Jupyter Notebook
Other Tools: Power BI, Tableau, MS Office
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Beautiful Soup, NLTK, Scikit-learn, Tensorflow

Certifications

IBM Data Science Specialization — Jun 2023
IBM Skills Network

- Finished various courses on Data Analysis, Data Visualization, Machine Learning, Databases, and SQL
- Credential URL – coursera.org/verify/professional-cert/DTH8WSYWWX4H
- Credential ID – DTH8WSYWWX4H