

Ankit Gupta

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2019 - 2021	M.Tech(CS), Indian Statistical Institute, Kolkata, 80.90 %
2011 - 2015	B.Tech(IT), Ajay Kumar Garg Engineering College, Ghaziabad, 71.90 %
2010	Intermediate (U.P. Board), Shivaji Inter College, Kanpur, 82.60 %
2008	High School (U.P. Board), Shivaji Inter College, Kanpur, 77.00 %

Work Experience

- 3-years experience (Since 2nd August 2021) with Reliance Industries Limited (RIL) as a Data Scientist.
- 3-years experience (from Nov, 2015 to Dec, 2018) as SQL developer and database administrator in Wipro, Bangalore.
- Internship from Hewlett Packard (HP) in 2014 for 45 days.

Master Thesis

Problem: Boolean Function Approximation by a Flat Polynomial

Supervisor: Prof. Sourav Chakraborty, Advanced Computing and Microelectronics Unit, ISI, Kolkata

Projects

- 1. IRM Data Labelling Analysis
 - · Reduce the manual tagging efforts on data fields and automatically predict the IRM data tags
 - Algorithms Used: Random Forest (AUC: 0.75), XGBoost (AUC: 0.886), Linear SVC (AUC: 0.69), Naïve bayes (AUC: 0.6)
- 2. MRN News Analytics(Sentiment Analyzer for Reuters News Articles)
 - To remove the redundant data and extraction of the useful information and find the polarity score/sentiment score
 - Find out the sentiment for the given article using the vaderSentiment library
- 3. Spot Freight Rate Forecasting (Time Series Analysis)
 - To forecast the flat rates of different routes of crude vessels
 - ML algorithms: ARIMA, ARIMAX, svr and tunned svr, decision trees, random forest, knn, lasso, linear model (lm)
 - Evaluated AICc,BIC,RSE, adjusted r-squared, mape for each mentioned ml algorithms
- 4. GSPL Natural Gas Digitisation
 - A web crawler (bot) autmatically login to a GSPL website and based on the different values from the drop-down menus, it pulls the data within a given day interval and pushed that data into the MySQL database.
 - Selenium is used for the web scraping and SqlAlchemy is used for the database connectivity.
- 5. Freight Forward Analysis (FFA)
- 6. Vessel Tracker
 - A lots of crudes and vessels are coming daily, so we have to track them like what would be the estimate time of arrival and what would be the temperature of a particular chemical etc.

- All these things come in an summarised report and then an email is triggered to the business.
- 7. Crude Indifference Usecase(MOPS data analytics)
 - By using Marginal Value analysis and Absolute Value Analysis, top and bottom constraints are evaluated.
- 8. Labelling and Classification of Fake News on Social Media, Supervisor: Dr. Malay Bhattacharya
 - The development of web interface to label and classify news article shared on social media over the Internet using the help from informed citizens.
 - Multinomial Naive Bayes classifier is applied on a dataset with labels of fake or real.
- 9. Implementing Single and Multilayer Perceptron Model, Supervisor: Dr. Rajat De
 - · Implemented the single layer perceptron model on sonar dataset which is linearly separable
 - Implemented the multilayer perceptron model for the classification of Iris flowers and the classification of handwritten characters in Mnist data.
- 10. Implementing Linear Regression Model, Supervisor: Dr. Swagatam Das
 - Implemented Linear Regression for the prediction of flat prices, given flat size and number of bedrooms in the flat.
- 11. Pneumonia detection using Deep Learning
 - A Classification problem to detect Pneumonia using X-ray images
 - Used VGG16 as a pretrained Model with imagenet weights
- 12. Chat Completion API using openai

Skill Set

- Machine Learning Algorithms: Linear/Lasso/Ridge Regression, Logistic Regression, Support Vector Machine(SVM), LDA, QDA, Naïve Bayes, KNN, Ensemble learning, Clustering, Deep Learning, NLP, Time Series Analysis, Genrative AI, Image Processing
- Programming Languages: C, Python, Julia, R, Matlab(Basic), Prolog
- Libraries: Pandas, Numpy, Matplotlib, Scikit-learn, PySpark, SqlAlchemy, TensorFlow, PyTorch
- Databases: MySQL, MSSQL, PostgreSQL, MongoDB
- Tools and Framework: Microsoft Azure, Jupyter Notebook, RStudio, Visual Studio, Git, Docker, MLflow, Streamlit, FastAPI, Tkinter
- Environment: Markdown, LaTeX
- · Web Technologies: HTML, CSS, Django(Basic)
- Operating Systems: Linux, Windows

Extra-Curricular Activities/Achievements

- AIR 2 in JEST(Theoretical Computer Science) in 2019.
- 98.36 percentile in GATE 2018.
- 1st Prize in All India Sanskriti Gyan Pariksha from year 2002 to 2006 and 1st Prize in Computer Education in 2004.
- Attended Computer Application Course under A.I.C.P. conducted by All India Society for Electronics and Computer Technology with A+ Grade in 2003.