Abhimanyu Agarwala

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ
Master of Science (M.S) in Data Science| **GPA**: 4.00 **Expected May 2024**
Coursework: Applied Machine Learning, Probability, Linear Algebra for Data Science

Visvesvaraya Technological University, CMR Institute of Technology, Karnataka, India
Bachelor of Engineering (B.E) in Information Science and Engineering| **CGPA**: 7.41/10 **October 2020**
Coursework: Database Management Systems (SQL)| Python| Data Warehousing| Statistics| Analysis and Design of Algorithm |ETL Process| Big Data`
Certification: Machine Learning A-Z™: Hands-On Python & R In Data Science on **Udemy**

EXPERIENCE

ITC Infotech, Bengaluru, India, Associate IT Consultant **January 2021 – August 2022**

- Prepared test scenarios and conducted manual and automation testing to verify the correct functional behavior of the services using Selenium, Java, and MS Excel and following Agile and Scrum methodology
- Performed testing for end-to-end functionality of credit card and Siebel services
- Communicated with client to understand the requirements and guaranteed all results were shared on time
- Ensured proper data migration and integration between Samba and National Commercial Bank by working in collaboration with multiple teams across the organization as part of the merger team

Saint Louis University- Globalshala, India, Data Visualization Virtual Internship **June 2021-July 2021**

- Certified Python Instructor for students of grades 8-12, supervised three students
- Developed problem statements to ensure all topics were understood and that students had a clear grasp of the concepts like Loops, Functions, Classes, Web API and OOPS concept
- Guided a student to prepare a python program which was awarded the endorsement by Duke of Edinburg

9zest, Noida, India, Full Stack Developer Intern **July 2018 – August 2018**

- Developed the Text-to-Speech Software using Google TTS Rest API and App Scripts.
- Programmed a reward system that rewards customer based on number of hours worked out using Java and Postgre SQL

ACADEMIC PROJECTS

Predict Credit Defaults to Optimize Lending Decisions (GitHub) **September 2022– December 2022**

- Studied the American Express Credit Card Data for predicting whether a customer will default or not
- Performed exploratory data analysis using Pearson test and chi-square test. Observed the distribution of each feature and normalized them using log transformation if the features were not normal
- Implemented PCA reduction and found that all the data could be represented in 13 component which covers a variance of 95%
- Trained using XGboost, Neural network and Random Forest algorithm to calculate the recall and precision we got an F1 score of 93% for class 0 and F1 Score of 81 for class 1 from XGboost. Currently we have employed Stratified K-Fold for dealing with the data imbalance

Analysis and Prediction of Chronic Kidney Disease using Machine Learning (GitHub) **September 2019 – May 2020**

- Led a team of three to research and design prediction software using Python and machine learning models like Decision Tree, Linear Regression, ANN
- Conducted exploratory data analysis using statistical methods on training dataset and data cleaning regarding hospital patient data using Pandas, Scikit-Learn and NumPy
- Analyzed data to identify the correlation between factors and identified which factors were the most significant in CKD detection
- Concluded that Logistic regression was best able to predict CKD with an accuracy of 92% and a Log loss of 0.43
- Implemented Agile and SCRUM methodologies to plan project development and release

PROGRAMMING SKILLS

Languages:	Python, SQL, Java, C, JavaScript, C++
Technologies:	Selenium, SoapUI, TensorFlow, AppScript
Software Tools:	RTC, Jupyter, Eclipse, WinSCP, SVN, Putty, PowerPoint, Word, Excel, GIT