

Ashish Upadhyay

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PROFESSIONAL SUMMARY

- Data Scientist with 3.2+ years of experience in developing Machine Learning and Deep Learning models like ANN, CNN, Logistic Regression, Naïve Bayes, SVM, Decision Trees, Random Forest, XGBoost, Dimensionality Reduction algorithms using Tensorflow and Sklearn.
- Extensive experience in doing Data Analysis, Data Cleaning, Exploratory Data Analysis, Feature Engineering, Feature Transformation, Feature Selection as well as developing and deploying solutions via Rest Web services.
- Experience working with unstructured data like text to perform task like sentiment analysis, named entity recognition, classification etc.
- Advance engineering skills in designing, developing, productionizing and maintaining AI solutions using best practices like DataOps, MLOps, and tools like docker.
- Hands on exposure with SQL for efficient data retrieval and transformation and Python for building scalable application and deploying solutions in production.

KEY SKILLS

Analytics Tool	Sklearn, Nltk, Pandas, NumPy, Spacy, Azure, Git, MS-Excel
Programming	Python, SQL
Data science	Machine Learning, Deep Learning, NLP, Statistical Modelling, Data Mining
Databases	MySQL, Postgres
Visualization Tools	Matplotlib, Seaborn, Power-BI
Frameworks	Django
Statistics	Descriptive Statistics, Inferential Statistics, Predictive Statistics

PROFESSIONAL EXPERIENCE

“Data Scientist” at Swap infotech pvt. Ltd, August 2018 to Present

- Development of end-to-end machine learning prototypes with aim to use the models in real time.
- Support and extend existing predictive models for marketing forecast, employee retention, churn prediction etc.
- Apply agile approaches for proof-of-concept requirements. Using iterative methods to help drive and refine information requirements, mockups, and prototyping.
- Identification of areas and domains to apply data science skills using Python, SQL, Predictive modelling, Machine Learning, Deep Learning and NLP.
- Strong skills in data manipulation, cleaning and exploratory analysis. Able to make logical conclusions about complex data that help properly format it for statistical analysis.
- Financial risk prediction using Random Forest with ROC of 0.93.
- Insurance quote acceptance using Decision Trees with accuracy of 95%.
- Visualization of complex data and analytical result using data visualization.
- Mentoring junior associates and ensuring best practices to be followed.

PROJECTS UNDERTAKEN

Project: Financial Risk Prediction

Description: For any organization, even the slightest chance of financial risk cannot be ignored. Organizations conduct regular inspections on their expenditures and revenue to make sure that they do not fall below the critical limit.

1. Used different algorithms like Decision Tree, Random Forest, SVM, Logistic Regression, Adaboost to train a model.
2. Variety of algorithms used in python to prepare models to predict financial crunch.

Project: Heart-Attack Prediction

Description: Heart diseases have become more than necessary. The project involved analysis of the Heart attacks patient dataset with proper data processing.

1. Trained models and predictions were made using different algorithms KNN, Decision Tree, Random Forest, SVM, Logistic Regression, etc.
2. I have used a variety of Machine Learning algorithms, implemented in python, to predict the presence of heart diseases.

Project: Loan eligibility prediction.

Description: A Classification Problem which predicts if a loan will get approved or not.

1. Used pandas, matplotlib and seaborn libraries to extract insight from the data and various machine learning algorithm.
2. Hyperparameter tuning using grid search cross validation for the xgboost machine learning model.
3. Pickled the model for deployment for backed team to be served for real time prediction..

Project: Saferwatch

Description: SaferWatch is a web and mobile based security system that was built to provide a higher level of safety for individuals and enhance security for organisation including schools, corporations, public venues, neighbourhoods and communities.

1. Involved in developing portal for admin user in nodejs.
2. Maintained brand standards under company guidelines.

EDUCATIONAL QUALIFICATION

Degree	Institution/ Board	Year of Passing	CGPA / Percentage
B.Tech (ECE)	Lovely Professional University, Phagwara, Punjab	2015	6.4

ACHIEVEMENTS

- Top 5 winner of **Hindi pakhwada**.
- Received **"Best Performer"** award at **Swap infotech** for **Q4 FY 2018-19**.
- Received **"League of Champions"** award at **Swap infotech** for **Process improvement**.
- Received **"Achiever"** award at **Swap infotech** for **Q1 FY 2019-20**.