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SUMMARY

Around 8 years of experienced in Machine Learning with proven success in building successful algorithms & predictive models for different industries. Highly adept at clustering & classification, data analysis & visualization. Passionate Data scientist & thriving analyst with the ability to apply ML techniques & algorithm development to solve real world industry problems.

KEY SKILLS

• Data Visualization • Predictive Analysis • Statistical Modeling • Training & Mentoring • Clustering & Classification • Data Analytics • Quantitative Analysis • ML Algorithms • Model Development • Deep Learning • Text mining • Azure • PowerBI

TECHNICAL SKILLS

* Programing languages: Python, R and SAS.
* Packages: Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, Stats models, Jupyter Notebook and Spyder.
* Statistics/Machine Learning: Statistical Analysis, Linear/Logistic Regression, Clustering, Random Forest, Classification, Feature engineering, Decision Trees, Regularizations.
* Certified: BASE SAS Certified with 90%.

Python Machine Learning Certified

R Machine Learning Certified

* Well versed with statistical inference. Hands on with sampling technique, estimation, hypothesis testing(z-test, t-test, ANOVA etc.), correlation and regression analysis
* Hierarchical clustering, k means clustering, association rules, collaborative filtering.
* Statistics: Anova, discrete and normal distributions, central tendencies
* Forecasting techniques: Linear Regression, Logistic Regression, Decision Trees, Random Forest.
* Knowledge on Time Series like ARIMA and ARIMAX Model.
* Knowledge on Named Entity Recognition, Intent Classification, Sentiment Analysis and Topic Detection.
* Worked in stat functions with Numpy, visualization using Matplotlib and Pandas.
* Advanced Forecasting using Exponential Smoothing, Time Series Forecasting
* Ability to translate business questions into analytical problems and build solutions using visualization techniques, machine learning, statistical modeling
* Worked on Jenkins pipeline and Airflow.
* Hands on SQL.
* Having exposure to AWS S3 bucket.

Present Work Experience

Experience: 1

Designation : Consultant

Professional Experience : Aug 2021 – Till Date

Organization : Capgemini

Location : Mumbai

Project: To predict the shelf-life of a formulation (Individual Nutrients) It’s a research project. Like POC study

Project-2: To develop an DR. Agent Web application.

Technologies and Tools used: Python, Django, Docker, Airflow, Jenkins, PostgreSQL, Bitbucket, VSV, AWS, ML, Azure, PowerBI.

roles and responsibilities:

* + Responsible for analyzing large data sets to develop custom models and algorithms to drive business solutions
  + Responsible for training the algorithms so they can be applied to future data sets and provide the appropriate recommendations in real time
  + Deploying the algorithm in cloud storage.
  + Build learning systems to analyze and filter continuous data flows
  + Combine data features to determine models
  + Visualization of data as per the client requirement using Python.
  + Support the entire application lifecycle (concept, design, test, release and support)
  + Gather specific requirements and suggest solutions for continuous improvement.
  + Used Azure storage account and automatically run the scripts from ADF.
  + Developing the Power BI dash board as per the requirement.
  + Developed prototypes for clients for the healthcare domain and involved in complete development. (Including documentation)
  + Responsible for Design and maintenance of databases using python. Deployed python-based APIs using database like PostgreSQL.
  + Worked with tables from PostgreSQL database using Python.
  + Developed a web application using Django framework.
  + Implemented CI/CD process on Airflow and DAGs by building Airflow Docker Images by Docker-Compose and deployed through AWS ECS cluster.
  + Involved in software development life cycle (SDLC) of tracking the requirements, gathering, analysis, detailed design, development, system testing and user acceptance testing.
  + Interactive in providing change requests, trouble reports and requirement collection with the client.
  + Implemented and modified various SQL queries and Functions, Cursors and Triggers as per the client requirements.
  + Managed code versioning with Bit Bucket and deployment to staging and production servers.
  + Used Celery as task queue and Redis as messaging broker to execute the asynchronous tasks.
  + Involved in code review using Bit Bucket pull request, reducing bugs, improving code quality and increasing knowledge sharing.
  + Automated production tasks.
  + Optimizing the Pyspark jobs to run on Docker cluster for faster data processing.
  + Developed and modified periodic tasks using analytics.

Present Work Experience

Experience: 2

Designation : Data Scientist

Professional Experience : July 2020 – July 2021

Organization : Tetrasoft

Location : Hyderabad

Project: To develop the web application and find the signal detection (Research) of AZD1222 product (COVISHILED).

Technologies and Tools used: Matplotlib, Python, Plotly, Seaborn, Pharmacovigilance, ML, VSV, AWS.

roles and responsibilities:

* + Responsible for analyzing large data sets to develop custom models and algorithms to drive business solutions
  + Responsible for training the algorithms so they can be applied to future data sets and provide the appropriate recommendations in real time
  + Build learning systems to analyze and filter continuous data flows
  + Combine data features to determine models
  + Visualization of data as per the client requirement using Python.
  + Support the entire application lifecycle (concept, design, test, release and support)
  + Gather specific requirements and suggest solutions for continuous improvement.
  + Developed CNN model for one of the bank client.

Past work Experience

Experience: 3

Designation : Data Scientist

Professional Experience : December 2018 – June 2020

Organization : CRC Pharma

Location : New Jersey. USA.

Projects: Developed for so many studies SDTM, ADAM and TLF’s.

Project 2: Employee-Mental-Health-Treatment-Prediction (Research)

Project 3: Developed Deep Learning models for Finresults.

Technologies and Tools used: SAS, VSV, ML, DL, AWS.

roles and responsibilities:

* + Translate business problems into precise analytical solutions with measurable business metrics
  + Work together with investigators to establish clinical data workflows for established and emerging studies
  + Visualization of data as per the client requirement using Matplotlib or plotly.
  + Translate reputable and in-house developed methods into hardened workflows and systems
  + Utilize software and publications to distribute tools and results
  + Responsible for conveying information on findings and platform requirements with internal and external stakeholders
  + Responsible for constructing end-to-end data science solutions to improve healthcare outcomes and reduce the cost
  + Advance conversational AI solutions to improve healthcare experience
  + Putting medical reports and images into an easily searchable structured format for clinical research and scientific purposes.
  + Worked on generating raw datasets on CDISC SDTM standards and analysis datasets on ADAM Standards
  + Created SDTM datasets for Patient narratives.
  + Created Patient narratives and generated .XML outputs for FDA regulatory submissions.
  + Assisted in preparation of various study specific documents
  + Involved in Data cleaning and Edit checks
  + Developed Semantic Search model using NLP

Project- Oncology therapy area

* Conducted an exploratory factor analysis to identify the relationship between product features.
* Identify an analog based on similarities of features of the launch product and the analog

Experience: 4

Designation : Data Researcher

Professional Experience : June 2016 – November 2018

Organization : Cognizant Technology Solutions(CTS)

Project: Developed an NLP model for regulatory submission.

Technologies and Tools used: Python, NLP, Clinical Research and Regulatory submissions.

roles and responsibilities:

* Analyzed on-going clinical study data, identify the potential issues in datasets, provided recommendations to clinical team.
* Performed biomarker analysis summarizing three cynomolgus toxicokinetic studies.
* Integrated datasets from 3 cynomolgus toxicokinetic studies, applied regressive analytics routines to identify key phenomena and created simple graph/tables for communication. Delivered takeaways and suggested actions to cross-functional team.
* Reviewing of oncology clinical trials data from different registries.
* Contacting sponsor or third-party vendor for the status of the clinical trial
* Track trial progress up to site and country level
* Review of clinical trial study protocols and clinical trial results
* Track drug pipeline data from different companies.
* Address questions, escalate issues or critical findings to project lead
* On-time reporting of tasks in specified formats.
* Recognized internally with Outstanding Effort II Data Analysis by clinical study team for early detection of anomaly. (Encore Award, Gold, October 2017)

Experience: 5

Designation : Research Scientist

Professional Experience : May 2014– June 2016

Organization : Jeevan Scientific Technology Limited.

roles and responsibilities:

* As a Research associate understanding the literature, developing the method validation of biological matrix by using LCMS/MS and maintaining the GMP/GLP and investigating the abnormal results and solving the issues.
* Receipt of biological samples from laboratory departments.
* Participated in experimentation of biological samples.
* Documented all details of samples and chemical composition.
* Extraction of drugs from biological samples by using different extraction techniques
* Analyzing the samples by using LC-MS/MS.
* Generating research reports regarding experiments in bioanalysis field.
* Maintaining scientific documentation for publication houses.
* Review of TMF(Trial Master File)
* Identify and assess the suitability of facilities to use as the clinical trial site
* Identify/select an investigator who will be responsible for conducting the trial at the trial site.
* Set up the trial sites - ensuring each center has the trial materials, including the trial drug often known as the investigational medicinal product (IMP)
* Coordinate with CRO CRAs to ensure readiness of Sites for initiation
* Follow SOPs; assist with implementing new processes and improving existing processes as directed
* Set up study related meetings and follow up with meeting
* Generating data for the allotted projects and compilation of documents.
* Coordinating with external instrumental engineers for the routine maintenance and repairing of instruments.
* Participated in sponsors/regulatory audits and Internal and External training.
* Prepare final reports

Hand on project experience:

1. Handling of phase I and phase II clinical trials for mapping SDTM and ADaM.
2. Review of CDISC data.
3. Validating define Package.

Hands on project experience 1:Prediction of Lung Disease

* By using VGG16 from Transfer learning, I have trained all the Chest x-rays of pneumonia and Normal, and I have validated with new Chest Xray. While training I have obtained 84% accuracy.

Hands on project experience 2: Credit Risk (k-means clustering Using R):

* + - Objective of this project is to identify the distinct group of customers who are taking persona loan and Credit cards and to identify the distinct group of customers who are well educated and Income they were earning and risk on spending through credit cards.

Hands on project experience 3: Random Forest Modelling for Cardiotocography Data

* + - Random Forest modelling of fetal states by exploring Cardiotocography.
    - Objective of this project is to execution estimation of different arbitrary random forest setups and compares the classification precision.
    - In this classification model, involves 400 trees in the forest with 7 dividing variables.
    - The entire experiment is carried out in RStudio software platform.

Major Areas Of Accountability

* Well versed in Clinical SAS programming.
* Forecasting techniques
* Good Domain knowledge to understand the problems in Clinical Data Science.
* Analyzes, Content Management, both Secondary and Primary research.
* Knowledge on ICH guidelines and Regulatory agencies.
* Hands on research skills in Clinical Trials data and Clinical Trial registries
* Responsible for accuracy, completeness and quality of work.
* Meets client deadlines.
* Strong in handling &analyzing complex data
* Hands-on Experience in working on Spreadsheets and documents in MS Office
* Knowledgeable of production/support workflow processes.

Academic project

FORMULATED AND DEVELOPMENT OF CONTROLLED RELEASE OF TRAMADOL HYDROCHLORIDE FROM MUCOADHESIVE BUCCAL PATCH

Achievements

* Game changer award for the year of 2017.
* Best performer award for the year of 2015 to 2016.
* Came up the learning curve to perform live work within the period of internship and became proficient.

STRENGTHS

* Good analytical skills.
* Good communication Skills & Leadership Qualities.
* Interested to work with a Team.
* Self-Learning.
* Highly motivated, committed person with Professional attitude.
* Can adapt easily to change

Educational Qualification

College: Shri Vishnu college of Pharmacy

Course: Master in Pharmacy

Grade: Distinction

Graduation Date: December 2013

Personal Profile

Date of Birth : 01/June/1990

Nationality : Indian

Languages Known : English, Telugu, Tamil

Marital Status : Married

Declaration

I do here by declare that the information furnished above is true to best of my knowledge.

Ramesh Naidu.K