VISHNU SIVADAS

IBM Certified Professional Data Scientist and ML enthusiast adept at collecting, analyzing and interpreting large datasets, building models and providing end to end analytics solutions for business problems

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SCHOLASTIC RECORD

Year	Degree	Institute	CGPA / %	Remarks
2015	B.Tech (EEE)	NIT, Calicut	8.08/10	**First Class with Distinction**
2011	12th (HSE)	Brahmanadodayam HSS, Kalady	98.17	**School Topper**
2009	10th (CBSE)	Sacred Heart Public School, Mookkannoor	95.00	**100% in Mathematics**

SKILLS

| DATA ANALYSIS | PREDICTIVE MODELLING | DATA VISUALISATION | STATISTICAL EVALUATION | PYTHON |

| PANDAS | SCIKIT-LEARN | MATPLOTLIB | SQL | FOLIUM | SEABORN | MS EXCEL | MS POWERPOINT |

PROJECTS

House Sale Prediction

- Predicted Housing sales price for Ames city considering all important features including the neighbourhood venues
- Deployed Regression techniques such as **Ridge, Lasso, Elastic Net, Support Vector Regressor**
- Feature engineering using **Heatmaps, Box Cox transformation, Log transformation**
- **Key Techniques and Tools:** Linear Regression | Foursquare API | Scikit-Learn | Pandas | Folium | Seaborn

Clustering Neighborhoods

- Identified best neighborhood for people migrating to Toronto and clustered neighborhoods visualized on maps
- Explored and segmented the neighborhoods in the city of Toronto using **K-means clustering**
- **Key Techniques and Tools:** K-means | Foursquare API | Scikit-Learn | BeautifulSoup | Geopy | Pandas | Folium

Predicting Customer Churn

- Predicted churn of customers of a telecommunication company using Logistic Regression
- Identified top factors resulting in churn thereby gaining deeper insights into the churn
- **Key Techniques and Tools:** Logistic Regression | Scikit-Learn | Pandas | Grid Search

Cancer Detection

- Classified cells to whether the samples are benign or malignant and visualized characteristics of cell using features
- **Support Vector Machines** used on existing human cell records
- **Key Techniques and Tools:** Support Vector Machines | Scikit-Learn | Pandas | Radial Bias Function

Treatment Prediction

- Built a classifier model to find out which drug might be appropriate for a future patient with the same illness
- Used **Decision Tree classifier** with Entropy criterion
- **Key Techniques and Tools:** Decision Tree | Scikit-Learn | Pandas

CERTIFICATIONS

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE	IBM – COURSERA
• Open source tools and libraries, methodologies, Python, databases, SQL • Data visualization, data analysis, and machine learning.	
• Credential URL: https://www.coursera.org/account/accomplishments/specialization/certificate/8755E4HSRQX7	

MACHINE LEARNING	STANFORD – COURSERA
• Supervised learning (regression, classification, SVMs, neural networks) • Unsupervised learning (clustering, dimensionality reduction, recommender systems) • Bias/variance theory, and statistical pattern recognition.	
• Credential URL: ttps://www.coursera.org/account/accomplishments/certificate/H28T9MNF424F	

DATA SCIENCE MATH SKILLS	DUKE UNIVERSITY – COURSERA
• Set theory, Graphing and describing functions on the x-y plane • Exponents, logarithms, natural log function • Probability theory, including Bayes' theorem	
• Credential URL: ttps://www.coursera.org/account/accomplishments/certificate/XNKLSZV5DD3B	

EXPERIENCE   TOTAL: 4.2 YEARS

Manager	PMSPL (Joint Venture by RIL and Brookfield)	Mar'18-Feb'20
• SCADA/TELECOM Engineer of Reliance Gas Pipelines including EWPL and DNEPL • Networking (CCNA Trained), Routing (EIRGP, BGP, OSPF), Switching, Cybersecurity and TCP/IP • L2/L3 networks, SCADA, SDH, MPLS-TP, firewall, VRF, VPLS, RTU Configuration and AUTOCAD • Network upgradation to MPLS-TP backbone of Pipeline network from SDH		

Manager	Reliance Industries Limited	Aug'15-Oct'17

• Reliability Engineer at the Central Engineering Services department of RIL J3.
• **Project**: Energy Management System of RIL J3 Project
  ▪ Analyzed and studied the need for Energy Management System and examining the logic behind Load Management System in the petrochemical site and Jamnagar refinery.
  ▪ Integration of 3 sections of JMD, RIL viz DTA, SEZ and J3 into same grid for centralized power shedding
  ▪ Commissioning of EDMS, Load Management System and Master Clock module.
  ▪ Execution of Data acquisition, monitoring and control of Electrical machines.
• Substation Maintenance Engineer at Surfactants plant of RIL Vadodara Manufacturing Division
• **Project**: Gujarat Olefins Plant Shutdown job
  ▪ Designing and implementation of Fast Bus Transfer in 6.6kV Board.
  ▪ Implementation of PLC based Auto changeover for 6.6kV board, 415V board
  ▪ Testing of various relays viz Overcurrent, Differential, under voltage.		

EXTRA-CURRICULAR ACTIVITIES

NIT Calicut	• Coordinator of Ragam, inter college annual cultural fest of NIT Calicut • Manager of Workshops and Exhibition Committee for Ragam. • Member of Student Guidance Cell.
School	• House Captain, led the students for intra school arts and sports fest.