

KATRAGADDA VIGNESWAR SIDDU

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[Email](#) · [LinkedIn Profile](#) · [Projects / Notebooks](#) · [GitHub Gist](#) · [Certifications](#)

BUSINESS ANALYST

I use Python to automate data collection, wrangling, analysis, and visualization while bringing a quantitative background of curiosity, critical thinking, and problem solving. The same computer science engineering specialization in Business Analytics perspective and expertise are used to keep up with the dynamic data science and analytics environment. I like resolving issues, offering data-driven insight, and constantly learning new things. I am good at leveraging the python data science ecosystem for data analysis, visualization, Product Analysis Development and storytelling. Data are only as valuable as the insights gained through analysis.

SKILLS

- Data Analysis
- Python
- Java
- OOP – Object Oriented Programming
- Jupiter Notebook · Pandas · Matplotlib · NumPy
- Data Visualization: Matplotlib · Seaborn · Tableau
- SQL · mySQL · ETL · PostgreSQL
- Machine Learning: scikit-learn · numpy
- Data Munging / Cleaning
- JetBrains PyCharm
- Product development & Analysis

EDUCATION

M. TECH INTEGRATED - VELLORE INSTITUTE OF TECHNOLOGY (VIT) CHENNAI - INDIA
[COMPUTER SCIENCE & ENGINEERING SPECIALIZATION IN BUSINESS ANALYTICS] 2019 - PRESENT
CGPA: 8.65

TECHNICAL COURSE WORKS: Analytics with Python: Python, Pandas, Matplotlib, DBMS, SQL, Jupyter Notebook, Visualization, SQL, Java, Machine Learning, Analytics, Introduction to Big Data (Hadoop), Data Structures and Algorithm, Information Visualization, Exploratory Data Analysis, Natural Language Processing (NLP), Network Security & Cryptography Fundamentals, Introduction to Data Science & Business Analytics.

MANAGEMENT COURSE WORKS: Ethics & Values, Lean Start-up Management, Social Marketing, Human Resource Management, Operations research & Management, Operations Analytics, Digital & Social Media Management, Financial Management, Supply Chain Analytics, Lean Six Sigma Principles, Customer Relationship Management, Community Development in India, Econometrics, Technical Answers for Real World Problems.

BOARD OF INTERMEDIATE EDUCATION – NARAYANA JR. COLLEGE VIJAYAWADA - INDIA
[MATHS PHYSICS CHEMISTRY] 2017 - 2019
CGPA: 9.40

BOARD OF SECONDARY EDUCATION – SRI CHAITANYA SCHOOL DEVARAPALLI - INDIA
CGPA: 9.70 2016 - 2017

ACADEMIC EXPERIENCE & POSITIONS IN UNIVERSITY

- ▶ AUG 2022 – JUN 2023
PRESIDENT, HEALTH CLUB
- ▶ OCT 2020 – FEB 2023
RANK: SERGEANT (1 TN BN ARMY MADRAS - A), NATIONAL CADET CORPS (NCC). GOVT OF INDIA
- ▶ 2021 – JUN 2023
DESIGN LEAD & ADVISORY BOARD, NATIONAL SERVICE SCHEME (NSS). GOVT OF INDIA
- ▶ 2021 – 2022
VIT OFFICE OUTREACH PROGRAMME, DESIGNER
- ▶ 2023
VIBRANCE STAGE COMMITTEE, NATIONAL EVENT STAGE INCHARGE (VIT)

PROJECTS / OPEN - SOURCE

LUNG CANCER PREDICTION USING CT IMAGES

(DEEP LEARNING – CNN, DATA VISUALIZATION, ALGORITHMS: BRISK, MACHINE LEARNING)

- Performed Image classification to predict whether the patient has cancer or not. Model Building through deep CNN and Brisk Algorithm.

HOSPITAL RECOMMENDATION SYSTEM FOR THE PATIENTS

(R PROGRAMMING, DATA VISUALIZATION, MACHINE LEARNING MODELS, R SHINY GUI)

- Developed a Highly Interactive GUI Recommendation Platform Which recommends the best nearest hospital based on input disease complication.

SOCIAL EDITORIAL COLLABORATIVE PATTERN ANALYTICS

(NETWORK X, DATA COMPUTING, ANALYZING THE STRUCTURE OF THE NETWORK THROUGH VARIOUS SOCIAL NETWORK VISUALIZATION)

- Pre-process GitHub User Collaboration data, analyze the social network & then analyze the Author influence in social network, identifying important collaborators, collaborative network and finally focus on “Recommending Co-Editors/Co-Authors who have yet to collaborate to perform the best”.

NETWORK SECURITY & CRYPTOGRAPHY FUNDAMENTALS

(NETWORK TOOL – CRYPTOOOL – IMPLEMENTED HYBRID CONNECTION TO DECRYPT THE MESSAGES THROUGH VARIOUS CIPHERS)

- Encryption and Decryption of the messages, finded Threatening postal letters through decryption by cryptool.

VISUALIZING INEQUALITIES IN LIFE EXPECTANCY

(DATA EXPLORATORY ANALYSIS, TABLEAU VISUALIZATION, JUPYTER NOTEBOOK)

- Numerical feature relation with life expectancy and performing system design mind map, timeline, Gantt chart, utilized various data visualization: box plot, histogram, heat map, line graph, violin plot, donut chart in Tableau Tool/Software by finding various insights through the dashboard.

CUSTOMER ATTRITION ANALYSIS

(PYSPARK, PYTHON)

- Visualizing data with principle components and binary variable distribution in customer churn and model Building with logistic regression, decision tree, random forest, naive Bayes, and XGboost classifier.

RESEARCH WORK

RESEARCH ON BOOK EXCHANGE SYSTEM

(LEAN START UP IDEA - RESEARCH REPORT ANALYSIS ON USERS WITHIN THE MARKET, BUSINESS MODEL CANVAS)

- The study focuses on the problems faced by book readers centered on the implications of the unavailability of books on an online and online platform and process an online web application where the users can exchange books online.

ON GOING RESEARCH ON AGRICULTURE SUSTAINABILITY

(HYDROPONICS TECHNOLOGY)

- Implementing farming on top roof buildings and Transforming the Digital Agriculture Transactions.

CERTIFICATIONS

- Workshop on Real-Time Cyber Security Using Virtual Machines and Public Cloud-Based Testbeds - [Academic Staff of VIT Chennai.](#)
- 19th National Conference on Science Engineering and Technology (19th NCSET) 2020 - [Vellore Institute of Technology, Chennai.](#)
- Google Cloud Fundamentals: Core Infrastructure – [Coursera.](#)
- Ideathon on Hydroponics Technology - [Vellore Institute of Technology, Chennai.](#)
- HeroMotorCorp Challenge for Hero Campus - [Hero Motors, Unstop.](#)

HONORS & AWARDS

▶ NCC B & C CERTIFICATE – 1 TN BN MADRAS A GROUP ARMY

- B – certificate with A Grade Issued by Indian Army NCC 1 TN BN NCC
- C – certificate with B Grade Issued by Indian Army NCC 1 TN BN NCC

▶ BEST NSS – VOLUNTEER AWARD 2021-2022 FROM THE GOVERNMENT OF INDIA

▶ AWARDED 1ST PRIZE BY THE AIRPORT AUTHORITY OF INDIA FOR DESIGNING A POSTER