KARTHIK RAJA

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EDUCATION

Northeastern University, Boston, USA   **Expected May 2025**
Master of Science in Engineering Management
Relevant Coursework : Operations Research, Probability and Statistics, Computation and Visualization

CMRIT, Bengaluru, India   **August 2017 – August 2021**
Bachelor of Engineering in Electronics & Communication Engineering
Relevant Coursework : Python, Probability and Statistics

SKILLS

- **Programming tools**: Python(Numpy, Pandas, Scikit-learn, Flask, Plotly, Django, NLTK, Matplotlib, Seaborn, Tensorflow), Tableau, Google Cloud Platform, MS Excel, Jira, R, Machine Learning, Natural Language Processing, AWS, Java, C, Git
- **Databases**: MySQL, PostgreSQL, MS SQL Server, Hadoop, Spark Streaming
- **Business**: Design Thinking, Agile, SDLC, Data Analysis, Communication, Project Management, Critical Thinking, Presentation
- **Cloud Services:** Databricks, AWS Elastic MapReduce, EC2, S3, Lambda

EXPERIENCE

Tata Consultancy Services, Chennai, India   **August 2021 - August 2023**
Business Intelligence Analyst – Python, Tableau, Risk Management
- Extracted raw data, performed **EDA using Python** and presented via **Tableau dashboards**, improving data insights by 25%
- Streamlined pipelines between Audit and Developer teams through Process Improvement, increasing project quality audit efficiency by 50%
- Examined and established Risk Mitigation plans for 10 projects, increasing successful project outcomes by 45% within a year
- Established Agile processes by working with the leadership team to better team collaboration and ship features 30% faster

Northern Suites, Bangalore, India   **August 2020 – December 2020**
Data Analyst – Python, SQL, Tableau
- Analyzed guest feedback data using **Python regression** to find service KPIs, improved service quality by 30%
- Optimized booking channels through **data-driven pricing strategies**, increased quarter 4 revenue by 2%
- Performed internal data analysis using **SQL** and identified financial liabilities, reduced operations expenditure by 15%
- Identified and Communicated CSAT and NPS to technical and non-technical stakeholders, resulting in 20% Business Growth

Folk Developers, Bangalore, India   **December 2019 – May 2020**
Machine Learning Intern - Python(NLP, Flask, Pandas, Numpy, Plotly), Tableau
- Inspected customer growth KPIs using Google Cloud Analytics querying over 20000 rows of customer records
- Designed **NLP-based Twitter sentiment analysis** bot using **Python**, achieving 70% market trend accuracy, Link - GitHub
- Utilized **Plotly to craft interactive customer data dashboards**, obtaining a 40% surge in customer growth over 3 months
- Collaborated cross-functionally to scrape and analyze data for the 'Bhagavad Gita' chatbot development

PROJECTS

Sleep Disorder Monitor   **January 2021- May 2021**
Data Analyst – Python, Link - GitHub
- Detected non-healthy sleep data in patients using **Python**, integrating it remotely with sensors, with an accuracy of 80 %
- **Visualized sleep pattern data** through Python and ThingSpeak API, displayed informative dashboards with Sleep pattern Information, slashing patient to doctor communication time by over 90%

Covid-19 Analysis   **August 2020 - October 2020**
Data Analyst - Python, Tableau
- Extracted, cleaned and **analysed Global Covid-19 data** from open public data repositories, revealing a striking 23:1 ratio between cases and deaths from January 2020 to October 2020
- Presented **live dashboards** on personal website, deployed time series analysis to predict availability of oxygen tanks for Covid-19 affected patients, utilized **Python and Flask API** to indicate availability information to over 500 people

CERTIFICATES

- Cognos TM1 10.1 Data Analysis(Code: 2027292)
- IBM Certified - Machine Learning Advanced Certification Training(Code: 2136390)