# RAJANBABU RAJARAMAN

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Business data analyst with a passion to solve complex business issues. Earned a Data Analytics certificate from Denver university Data Analytics and Visualization Boot Camp. Curiosity and ability to analyze with large sets of structured, semi-structured, and raw data. Team-oriented individual with strengths in analytical problem solving and collaborating across diverse groups.

## TECHNICAL SKILLS

**Languages:** Python, R, JavaScript ES6+, HTML5, SQL, NoSQL
**Applications:** GitHub, MongoDB, MySQL, PostgreSQL, GIT, AWS, Flask, Tableau
**Tools:** Excel, Seaborn, Scikit learn, TensorFlow, Databasing, Pandas, Jupyter Notebook
**Analysis** - Alteryx, **Power BI**, ATOLL, PLANET EV, ACTIX, TEMS, NetAct, Arieso (ER)

## PROJECTS

**Data Engineering Sqlalchemy | Written link to [GitHub](#)**
Investigation on climate (Hawaii) data analysis and data exploration.
- Tools: Python, Pandas, SQLAlchemy, NumPy, PostgreSQL, PrimaryKeys, ForeignKeys

**Python Data Visualization | Written link to [GitHub](#)**
Investigation of data analysis of financial records of Bank and US vote-counting process.
- Tools: Python, Jupyter Notebook

**Visualizing dashboard website| Written link to [GitHub](#)**
Dynamic website application to visualize Landing and Comparisons pages with Navbar.
- Tools: HTML, CSS, JS, Leaflet.js, JavaScript

## WORK EXPERIENCE

**SR Engineer (Research &Solutions)**                                    2018 -2020
**IHS' MARKIT**

- Research & Solutions Team, and Radio Access technology - an independent and consumer-focused benchmarking division of IHS Markit
- Develop competitive insights for significant carriers (**Verizon, BT, T-Mobile & AT&T**) based on field testing of emerging technologies and feature deployments by Tier 1

Operators such as **5G NR (FDD, TDD Sub6, mm Wave), NB-IoT, LTE-Advanced, Massive MIMO**
- Support Pre-& Post-Sales customer relationships and assist in Product innovation and roadmap
- Performance validation and RF Data analytics – Tableau, LMA Wireless metrics analysis used

**Professional RAN Engineer**                                          2010 – 2018
**AT& T, Redmond**
- **RF design responsibility for ND and MN markets** and played a crucial role in support of Zodiac project (UMTS overlay into 137 CDMA / 65 GSM sites)
- UL noise mitigation project (West region) - Met or exceeded the regional uplink monthly completion goal.
- **Vendor management** is inclusive of Regional External interference, PIM, and post-Performance validation.
- Managed Regional training program inclusive of courses allocation, Budget plan, Coordination with the Regional and National leadership team.
- **KPI Acute analysis**, Zero RRC traffic validation, and DCR Degradation for the PNW market.
- Preliminary triage analysis, Tracking projects with our internal partners
- Infill site Design for MNP market (LTE /UMTS), Design modifications for Extension approval for MI market sites.
- Performed Traffic simulation, Neighbor list generation, scrambling code, and PCI planning (LTE) using Atoll
- Capacity trigger and coverage enhancement sites for three-year forecast plan
- RF safety coordination and FCC license validation

**SR RF Engineer**                                                    2004 - 2010
**Alltel / Western Wireless, Bellevue/ WFI**
- Responsible for handling RF Design and Optimization for North Dakota Market and MN market sites. (136 CDMA upgraded with EVDO Rev A, 66 GSM Sites).
- Cost-effective **Capacity and Budget plan** for CDMA/GSM NW for the World Hockey Tournament in ND
- Candidates Evaluation inclusive of Search rings (SARF)release
- Improved the statistics through timely deployment of performance and capacity enhancements
- Responsible for current spectrum utilization and preservation of PCS license.
- **GSM hopping features** enabled for 65 GSM ND eastern area sites
- CGSA Unserved Territory analysis. Extension Agreements and Frequency Coordination
- Performed antenna mod design to improve the Performance for identified QOS areas for ND sites.
Clients: Western Wireless Corp./ Verizon Wireless, Nebraska / Leap Wireless/Cricket communications, SD / Siemens Mobile communication LTD, Sao Paulo, Brazil
- **Model tuning**, Frequency Planning for augmenting the WWC Site capacity.
- Site Survey, Calibration, and E911 Accuracy Test inclusive of Functionality Test
- Nominal cell design GSM network with search area analysis - using Siemens RF tool.
- RF safety coordination and FCC license validation

## EDUCATION

**Certificate, Data Analytics**
University of Denver

**Bachelor of Engineering, Electronics**
Anna University, India

**Master of Business Administration, Operations Management**
IGNOU University, India