

Wishwajeet Singh

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Professional Summary:

Telecom professional with 8 years of experience, including **6 years as RF/Drive Test Engineer** and **2 years in Embedded R&D Engineer with Python automation and data analysis**. Expertise in **network performance analysis, KPI optimization, and Python (NumPy, Pandas) for telecom data handling**.

Core Competencies:

- **Telecom Engineering:** RF Optimization, Drive Test (DT), KPI Analysis, Network Troubleshooting, LTE/3G/2G
- **Data Analysis & Programming:** Python, NumPy, Pandas, Data Cleaning, Statistical Analysis
- **Embedded Automation:** Test Automation, Data Parsing, Log Analysis, Report Generation
- **Tools & Platforms:** TEMS, AZQ, Spectrum Analyser, MapInfo, Jupyter Notebook
- **Collaboration:** Cross-functional teamwork, Client Reporting, Problem-Solving
- **Other Skills:** Report Generation, Troubleshooting, Cross-functional Collaboration

Professional Experience:

RT Vision Technologies Pvt. Ltd.

Greater Noida

Embedded Engineer /Automation & Data Analysis

| Nov, 2023 | – Present

- Data Analysis using Python, NumPy, Pandas, Jupyter Notebook, VS code
 - Built Python script using **NumPy & Pandas** to process large embedded system datasets.
 - Automated KPI extraction and visualization, reducing analysis time by 60%.
 - Developed test automation scripts to validate modem/network performance in embedded devices.
 - Supported R&D with insights from structured telecom log analysis.
 - Developed and tested high-reliability C/C++ firmware for automotive-grade Motor Control Units (MCUs), contributing to robust and safety-certified final products for e-mobility applications.
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RF/Drive Test Engineer Airtel Pvt Ltd

Gurgaon

Outsourced Employment of Various Vendor

| 16 June 2016 – 12 Jan 2022 |

Job Responsibility:

- Conducted extensive drive tests for 2G/3G/4G networks, analysing **RSRP, SINR, Throughput**.
- Identified coverage holes, optimized site parameters, and reduced call drops by 15%.
- Delivered performance improvement reports for multiple telecom operators.
- Hands-on with **TEMS Investigation, AZQ, Spectrum Analyser and MapInfo** for RF data analysis.
- Telecom: RF Optimization, Drive Test, KPI Analysis, LTE/3G/2G
- Embedded Automation: Test Automation, Log Analysis, Data Parsing
- Performed SSVs for LTE sites.
- Performed LTE Throughput test on Uplink and Downlink using both FTP and HTTP servers.
- Performed Ping Test, UDP Tests, CS Fall Back tests.
- Performed LTE cluster Drives
- 4G LTE Analysis & Optimization of RF Parameter for Poor Coverage, Quality, Handover Analysis, Swap Analysis, Poor
- FTP DL- UL, Poor UDP DL-UL Throuput, CDR etc. Single SSD & Cluster Site Shakedown Report.
- Optimization the Network KPI of Single & Cluster Site and discuss with Ericsson team.
- SCFT of 3G, 2G and 4G sites, LTE swap with Ericson BTS RUS12B3
- Involved in the optimization of new site and old site by drive tests and physically antenna tilts and orientation.
- Monitoring routine drive test and look for patches with bad quality & poor coverage and subsequent proposing new
- Responsible for ICM reduction by finding source with the help of Spectrum Analyser.

Training at Emblogic from Jan 2022 to Jan 2023:

System Programming Using IPC Technique from Emblogic Research & Competency Development Labs.

- C language
- LINUX IPC (Inter process communications)
- LINUX IPC (Inter process communications) using Socket and Protocol
- Python with NumPy and Pandas

Projects During Trainings :

- 1) Multiple Data Compression and Encryption using iterative techniques:
 - 2) Client Server communication using Inter Process Communication and threads:
 - 3) Client Server communication using Socket
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Key Feature:

- **KPI Analyser Tool:** -My Geo, Map-Info, Google Earth, Mcom, GEO Analytics, EEA Tool for VoLTE call analysis Mynetex, Konnect, Mycomm, XNet, Net Check 2.0
 - **Python + Pandas:** To Automated processing of RF log files, generating KPI dashboards.
 - **Drive Test Log Cleaner (NumPy):** Scripted solution to remove duplicates & invalid logs, improving KPI accuracy.
 - **Embedded Test Automation:** Created integrated test & data collection script for R&D modem validation.
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Education:

B.Tech – Information Technology
MD University, Rohtak | 2012

Certifications:

- Python with Pandas & NumPy for Data Analysis (Embllogic Pvt. Ltd)
 - Telecom Optimization Fundamentals
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Strengths:

- Telecom expertise with strong data analysis background.
- Proven ability to automate repetitive tasks and deliver actionable insights.
- Hands-on experience with real-world telecom datasets and embedded test logs.
- Ability to translate raw data into actionable insights for network improvement.
- Data analysis expertise with Python, bridging telecom and automation.