**Nandhini Kumar**

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**GITHUB**: [GitHub Profile](https://github.com/NandhiniKumar12) | **PORTFOLIO:** [My Portfolio link](https://nandhinikumar12.github.io/NandhiniKumar.github.io/)

**OVERVIEW**

Detail-oriented data analyst with over 3.3 years of experience in Quality Assurance and a strong foundation in data analysis, visualization, and reporting. Proficient in SQL, Python, and BI tools, with a proven ability to extract insights from complex datasets to drive business decisions. Skilled in collaborating with cross-functional teams to implement data-driven solutions, enhancing operational efficiency and product quality.

**SKILLS**

SQL| Python| R| Tableau| Power BI| Excel (Advanced)| VBA| MS Access| MySQL| Snowflake| Apache Hadoop | Statistical Analysis| Predictive Modeling| A/B Testing| Regression Analysis | Jupyter Notebooks| Apache Hadoop| Problem-Solving| Attention to Detail| Communication| Critical Thinking| Team Collaboration

**PROFESSIONAL EXPERIENCE**

***Data Analytics Bootcamp*** June 2024 –December 2024

Pragra,canada

* Analyzed large datasets using SQL, Python, and Tableau to generate reports on customer behavior, which improved customer retention by 15%.
* Cleaned and transformed large datasets using **SQL, Python, and Advanced Excel (Power Query, VBA, Pivot Tables)**, ensuring data accuracy and consistency for analysis.
* Developed interactive dashboards in Power BI and Tableau to visualize key insights, improving decision-making efficiency.
* Conducted exploratory data analysis (EDA) using Python (Pandas, Seaborn) to uncover patterns in workforce layoffs, leading to actionable insights.
* Automated data processing tasks using Power Query and VBA, reducing manual reporting efforts by 30%.
* Built statistical models for sales forecasting, enabling better revenue predictions and business strategy adjustments.
* defined key performance indicators (KPIs) and ensure alignment with business objectives.
* performed data cleaning and transformation on electric vehicle adoption datasets, facilitating trend analysis and policy recommendations.
* Designed and implemented Excel-based dashboards for business reporting, improving data accessibility and streamlining reporting workflow.
* Published project analyses and reports on GitHub, demonstrating proficiency in version control and collaborative data analysis.

***Career Break*** November 2021 – present

**Parental Responsibilities & Professional Development**  
Took a career break to focus on **parental responsibilities** while also actively upskilling in data analytics to stay aligned with industry advancements.

***Test Associate*** April 2019-november 2021

Maveric Systems, India

Domain: Banking (Credit Cards, Debit Cards, Loan management)

* Managed and validated large datasets (1M+ records) related to customer management, loans, and card transactions, ensuring 99.9% **data accuracy** and compliance with banking regulations.
* Designed and executed 500+ manual and automated test cases for banking applications, increasing system reliability by **30%** and reducing transaction errors by **25%**.
* Performed API testing using Postman for REST API and GraphQL, ensuring 98% successful integration across 10+ banking platforms.
* **I**mplemented **automation frameworks** (Selenium with Cucumber, TestNG, and POM), reducing manual testing efforts by **40%** and improving test execution speed by 35%.
* **Tracked and managed defects in JIRA**, resolving **critical issues** within SLA, reducing defect leakage by **20%**.
* Maintained test scripts in **GIT** and executed **daily regression builds via Jenkins**, improving deployment efficiency by **30%** and reducing system downtime
* Analyzed **business requirements (BRD, BRS, User Stories)**, leading to **100% test coverage** and reducing requirement gaps by **15%**.
* Conducted **impact analysis and E2E scenario testing**, identifying **20% more potential risks**, leading to optimized workflows and increased system stability.
* Participated in Agile methodologies, contributing to sprint cycles, improving team efficiency and reducing testing cycle time
* Performed **UI and functional testing**, ensuring 99% defect-free deployment in customer onboarding, banking transactions, and card management processes.

***Trainee research Analyst*** *June 2018 - Dec 2018*

#### Comodo Security Solutions Pvt Ltd, Chennai, India

* **Analyzed and processed** large volumes of files (100K+ per month) to detect malware, ensuring **95% accuracy** in threat identification.
* Classified and provided verdicts on files based on behavioral analysis, categorizing them as **safe or malware** to enhance cybersecurity measures.
* **Uploaded and managed** file verdicts in a structured database, improving data retrieval and malware detection efficiency by **30%**.

**EDUCATION**

### Bachelor of Technology in Information technology