Samiksha Khare

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SUMMARY

Motivated graduate student with extensive software engineering experience. Skilled in Python, Java, SQL, backend development, cloud platforms, big data and AI/ML technologies. Thrives in fast-paced environments with a strong analytical and problem-solving skills

EDUCATION

Santa Clara University (*Master of Science, Information Systems) – 3.83 CGPA*   *Dec 2025*
Coursework: Object-Oriented Programming, Data Analytics - Python, Database Management System, Big Data Modeling & Analytics, Business Intelligence & Data Warehouse, Dashboards with Tableau, Natural Language Processing, Applied Cloud Computing

R.G.P.V University, India (*Bachelor of Engineering in Electronics & Communication*)   *July 2010 - June 2014*

SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript, SQL
Frameworks & Libraries: Node.js, Express.js, Bootstrap, Selenium, Cypress, Mocha, Chai, TestNG, Pandas, NumPy
Tools & Technologies: MySQL, AWS, GCP, BigQuery, Spark, Hadoop, MapReduce, Kafka, Kubernetes, GitHub, Jenkins, Docker, Jira
AI/ML: TensorFlow, NLP, Predictive Modeling, Scikit-learn, Regression & Classification, Chi-Square
Methodologies: Agile, Scrum, Software Development Lifecycle (SDLC)

CERTIFICATIONS Link

Supervised Machine Learning: Regression and Classification   *Sept 2024*
AWS Cloud Practitioner   *June 2023*

RESEARCH EXPERIENCE

Research Assistant (under Prof. Manoochehr Ghiassi) - *Santa Clara University*   *Dec 2024 - Present*
- Automated **data scraping** using **Python Selenium WebDriver** to extract news articles for EV market predictive analysis
- Conducted **NLP** feature engineering to derive a 68-feature set, applied **AI/ML** techniques to train SVM classifier achieving 72% accuracy

PROJECTS

Historic Events with Movie Recommendation | Node.js, JavaScript, HTML/CSS, SQL, Redis, Docker | GitHub   *Sept - Dec 2024*
- Developed **full-stack** web application to recommend top 5 movies for historical events using **content-based recommendation** model
- Developed **RESTful APIs** using **Node.js** and the **Express** framework to extract, filter, and add new events to the **MySQL** database
- Built **event-driven Kafka** based **real-time** streams to detect new historical and movie data events and automatically trigger **ML model**
- Automated the weekly ingestion of movie data from TMDB API using Apache **Airflow**

Flight Data Analysis | Databricks, Amazon S3, Spark, OLAP, Tableau | GitHub   *Jan - March 2025*
- Built scalable **ETL pipeline** in **Databricks** using **PySpark** to process **19M+** Parquet format flight records stored on **AWS S3**
- Designed **star schema** in **BigQuery** and developed **OLAP** queries to analyze flight delay trends, taxi times, and cancellation rates
- Developed interactive **Tableau** dashboards to visualize flight patterns for aviation analytics

PROFESSIONAL EXPERIENCE

Dassault Systemes - *Automation Engineer Intern - Santa Clara, CA*   *July 2025 - Present*
- Automating ERP application using **C#** in **Ranorex** and **ReadyAPI** tool to expand test coverage and reduce manual testing efforts
- Integrating regression and functional automation test suites with **TestRail**, enabling automated test result reporting
- Actively participate in scrum ceremonies with cross-functional teams to ensure product functionality aligns with user requirements

Google X (Alphabet Inc.) – *Software Engineer Intern - Mountain View, CA*   *Jan - June 2025*
- Designed and built end-to-end ETL pipeline on **GCP** using **Python** for data transformations of millions of records from multiple sources
- Revealed critical ocean trends using **OLAP** queries in **BigQuery** and **Looker Studio** dashboard, reporting key insights to stakeholders
- Conducted **predictive analysis** with 80% accuracy using **time-series ML model** to forecast ocean temperature and seasonal patterns

Tibco Software - *Member of Technical Staff - Pune, India*   *Sept 2019 - Sept 2022*
- Automated **User Interface** and **REST APIs** tests using the **JavaScript** based Cypress framework for Enterprise level application
- Configured **CI/CD** pipelines using **Jenkins**, **GitHub** and **Docker** to automate functional, smoke and regression tests
- Conducted installation testing on **AWS Elastic Kubernetes Service** using **Helm Charts** to deploy **ModelOps microservices**
- **Mentored** team members by providing guidance on test automation frameworks to enhance team efficiency and knowledge sharing

Cognizant Technology - *Automation Engineer - Pune, India*   *May 2015 - Sept 2019*
- Developed **Page Object Model** design pattern automation framework using **Selenium** WebDriver with **Java**, TestNG and Maven
- Configured **CI/CD** pipelines using **Jenkins**, **GitHub** and **Docker** to automate functional, smoke and regression tests