Ruchi Pandey

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EDUCATION

Stevens Institute of Technology, Hoboken, NJ, USA   May 2023
Master of Science in Computer Science **GPA:** 3.6/4.0

SKILLS AND EXPERTISE

- **Programming Languages** : Python, SQL, Unix Shell Scripting
- **Databases**   : MySQL, MongoDB, Oracle, Teradata, PostgreSQL, Snowflake
- **Cloud Technology**   : AWS (EC2, Athena, S3, Glue, Lambda, Step, RDS, Redshift, Airflow), Databricks, GCP, Microsoft Azure
- **Big Data**   : Apache Hadoop, HDFS, Spark (PySpark)
- **ML Frameworks**   : Flask, NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn
- **Web Development**   : HTML5, CSS3, JavaScript, PHP, XML, JDBC, Flask
- **Scheduling & CI/CD Tools** : Airflow, GitLab, Jenkins, Kubernetes
- **Other Tools**   : PyCharm, Tableau, Excel, Selenium

EXPERIENCE

Gusto, NY, USA   Dec 2023 - Present
Data Engineer

- Integrated Slack notification library using wheel file to streamline communication and boost team productivity by *75%*
- Optimized SQL query transformations to accurately forecast monthly data, reducing processing time
  by 60% and enhancing decision-making capabilities
- Leveraged PyDeequ framework to rigorously assess data quality, identifying and addressing integrity
  issues for 80% improvement in data reliability
- Implemented robust IAM policies and roles within AWS Identity and Access Management (IAM) to ensure secure access
  control across various AWS services and resources
- Worked closely with cross-functional teams to establish IAM best practices and standards, offering expertise in secure IAM
  implementations for both data engineering projects and AWS cloud deployments

SMCP, NY, USA   Jun 2022 - Dec 2022
Data Analyst

- Scripted a customized data pipeline process using Python and SQL, providing real-time tracking of brand progress for
  the Finance department
- Optimized complex SQL transformation query, achieving a 50% reduction in processing time through query restructuring
- Automated the daily sales report using web scraping tools, resulting in a time-saving of 60 hours per month in manual effort
- Integrated Tableau with existing data infrastructure, ensuring seamless data connectivity and real-time updates
- Developed a data visualization dashboard that provides real-time insights into sales performance, enabling data-driven sales
  strategies
- Developed interactive, parameterized dashboards using Tableau or Power BI, empowering end-users to customize views
  based on specific criteria, fostering self-service analytics and deeper business insights

Western Union, Hyderabad, India   Sept 2018 -Apr 2021
Data Analyst

- Extracted customer demographics (80% increase in efficiency) from a relational database using SQL queries, enabling
  in-depth market segmentation for targeted marketing initiatives
- Collaborated with team members to streamline data collection and reporting processes using Google Forms integrated with
  Sheets
- Automated weekly reporting tasks using Excel macros, achieving a remarkable 50% reduction in reporting time, freeing up
  valuable resources for further analysis
- Leveraged advanced SQL techniques, including joins and subqueries, to conduct insightful cohort analysis, identifying user
  behavior patterns (30% uplift in campaign effectiveness) that guided targeted marketing campaigns
- Created parameterized dashboards allowing end-users to customize views based on specific criteria
- Constructed dynamic dashboards and reports utilizing Excel's Power Query and Power Pivot functionalities, enabling data
  manipulation, transformation, and visualization for enhanced communication and data comprehension

PROJECTS

COVID-19 Sentimental Analysis   Apr 2022
- Architected a sentiment analysis system that leveraged NLP and machine learning techniques to classify COVID-19 tweets based
  on assorted policies; improved classification accuracy by 15% and eliminated false alarms by 25%

Market analysis and data analysis for university admissions   Aug 2022
- Performed extensive data collection and cleaning across multiple universities admission databases using SQL, conducted advanced
  SQL analyses to identify key predictors, and developed a Tableau dashboard for enhanced data-driven decision-making in university
  admissions, including demographic-specific trend analysis

CERTIFICATIONS

- Amazon Web Services Cloud Practitioner
- Oracle Database 11g: Program with SQL Release 2
- Data Analysis with Python