

Shashwat Singh	
+ 1 (520) 534-5873 • shashwatsinghli@arizona.edu • linkedin.com/in/shashwatsinghds/ •	
EDUCATION	
M.S in Data Science- University of Arizona, Tucson, AZ	August 2023 - May 2025
Coursework: Data Mining, Machine Learning, Data Visualization, Data Warehousing in Cloud, Intro to AI, Healthcare Data Science, Natural Language Processing GPA: 3.78/4.0	
B.E in Computer Science & Engineering - RGPV, India	July 2015 - May 2019
Coursework: Data Structure & Algorithms, Software Engineering; GPA: 3.22/4.0	
PROFESSIONAL EXPERIENCE	
UNIVERSITY OF ARIZONA Tucson, Arizona, US	Sep 2023 - Jan 2025
Process Automation Specialist (Data Analyst)	
<ul style="list-style-type: none"> Enhanced organizational efficiency by automating complex workflows using PowerApps and Power Automate, achieving a 40% reduction in manual processing time and improving data accessibility Developed and maintained over 25 dynamic dashboards in Power BI, delivering real-time actionable insights and enabling a 30% improvement in data-driven decision-making across multiple departments Performed statistical analyses on datasets with 5000 rows, uncovering actionable insights that helped leadership achieve 20% gains in operational efficiency through strategic planning Automated over 20 data pipelines, seamlessly integrating data from diverse sources with 95% accuracy, reducing reporting lag by 50% and enhancing analytics reliability 	
INFOSYS LTD. India	Oct 2021 - June 2023
Senior Systems Engineer (SDE 2)	
<ul style="list-style-type: none"> Achieved 400% workload turnaround efficiency by leading a team of 4 software engineers and completing 4 high complexity tasks in 3 months exceeding the original timeline by a factor of 4. Led the development of 30+ Robotics Process Automation (RPA) use-cases for Logistics and HR, improving workflow efficiency, driving results that generated a \$2.5 million profit for the client Designed pricing algorithms using parameters like weight, distance, urgency, and hazmat status, enabling dynamic adjustments. Improved processing speed by 30% and reduced manual effort by 50% Implemented and architected reusable Python frameworks for data scraping, mining, and processing, standardizing workflows, saving 72 human hours per week, and cutting processing times by 40% Developed advanced data visualization dashboards with BI teams, integrating insights from multiple data sources to provide leadership with real-time analytics supporting 3 critical business units Optimized ETL pipelines to transform datasets exceeding 1 million rows, implementing robust validation techniques, reducing data latency by 30%, and enabling faster, accurate reporting for diverse functional teams 	
INFOSYS LTD. India	Sep 2019 - Sep 2021
Systems Engineer (SDE)	
<ul style="list-style-type: none"> Drove Robotic Process Automation (RPA) development and data cleaning activities for 3 major clients, delivering 15+ RPA projects and achieving a 60% reduction in manual processing time Collaborated with Business Analysts to gather and integrate data from diverse sources, enabling a 50% increase in data mining efficiency and significantly improving reporting capabilities Developed optimized SQL queries and reusable stored procedures, improving efficiency and consistency. Leveraged stored procedures to handle datasets exceeding 200,000 rows, ensuring scalability and accuracy 	
SKILLS	
<ul style="list-style-type: none"> Core: Data Integration, Statistical Analysis, Data Visualization, Automation, Machine Learning, Data Modeling Languages: Python, R, SQL, C#, Javascript, HTML, CSS Databases: MySQL, PostgreSQL, MS SQL, MongoDB, Snowflake Tools & Platforms: Power BI, Tableau, AWS, Azure Data Factory Technical: Jupyter Notebooks, Docker, Git, TensorFlow, PyTorch, scikit-learn, Keras, Flask, FastAPI Soft Skills: Cross-functional Collaboration, Project Management, Problem Solving, Agile Methodologies 	
ACADEMIC PROJECTS	
Fetal Health Prediction Tucson, AZ	August 2024 - December 2024
<ul style="list-style-type: none"> Developed advanced machine learning models to accurately predict fetal health outcomes using CTG data, achieving 98-99% accuracy with SMOTE and RandomizedSearchCV to handle class imbalance effectively Implemented and optimized ensemble models (Random Forest, Gradient Boosting, XGBoost), improving recall for minority classes by over 30% and precision by 20%, leveraging key indicators like Prolonged Decelerations Leveraged AI-driven solutions for scalable, non-invasive diagnostics, effectively addressing critical healthcare disparities for over 5,000 CTG records in alignment with UN Sustainable Development Goals (SDG 3) 	
Portfolio+ University of Arizona	August 2024 - December 2024
<ul style="list-style-type: none"> Developed a MySQL-backed virtual stock portfolio management system, integrating real-time data using yfinance API, allowing 50+ users to track 100+ stocks, simulate trades, analyzing portfolio performance dynamically Designed an interactive Flask-based UI with modular dashboards, personalized summaries, market visualizations, and seamless transitions for buy/sell actions, improving user engagement by 40% compared to baseline prototypes Designed an optimized MySQL database schema handling over 10,000 rows of stock and user data. Deployed the application on a cloud platform with zero downtime, ensuring scalability for up to 1,000 concurrent users 	
FocusRide: AI-Powered Road Safety and Travel Optimization University of Arizona	August 2024 - December 2024
<ul style="list-style-type: none"> Developed an AI-driven driver monitoring system, integrating deep learning models like ResNet50 and MobileNetV2 to detect distracted driving with high accuracy in real time Designed dynamic route optimization algorithms, incorporating distraction levels, traffic data, and road conditions, improving driver safety by 30% while maintaining travel efficiency 	
Predicting Asset Prices by 2026 University of Arizona	August 2024 - December 2024
<ul style="list-style-type: none"> Developed predictive models using linear regression to forecast prices of stocks, cryptocurrencies, and commodities, achieving a model accuracy of 76.5% variance explained for Apple's stock trends. Performed data wrangling and exploratory analysis, standardizing inconsistent date formats, analyzing trading volumes, and visualizing price trends for assets spanning 2020–2024 	