

Ansh Vinod Motwani

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EDUCATION

Master of Science in Computer Science (Big Data Systems) - Arizona State University, Tempe, Arizona **December 2025**

Coursework: Database Management System Implementation , Data Visualization , Foundations of Algorithm , Statistical Machine Learning , Computer Network and Forensics , Data Mining , Cloud Computing

Bachelor of Technology in Information Technology - SRM Institute of Science and Technology, India **May 2020**

TECHNICAL SKILLS

Programming Language: SQL , Python , Java , PL/SQL , C++ , Javascript

Technologies: Node.js , HTML , PowerBI , Tableau , React , Apache Spark , Apache Hadoop

Tools , Framework : TensorFlow, NumPy, Pandas, scikit-learn, Statsmodels , Git, Jira, Jupyter Notebooks

Databases: MySQL Server, PostgreSQL , MongoDB

Cloud Technologies: GCP, Azure

Certifications: Microsoft AZ-900

EXPERIENCE

Member of Technical Staff **January 2023 - July 2023**
Capgemini **Bangalore, India**

- Directed full lifecycle of 25+ production deployments leveraging Agile methodologies, boosting operational efficiencies and ensuring compliance with industry standards.
- Led complex database development using PL/SQL to streamline data management with batch and ETL processes.
- Optimized core business workflows, promoting operational efficiency by 23% across multiple high-impact projects.
- Integrated Machine Learning models into data analytics pipelines to deliver predictive insights, revamping decision-making and identifying key performance trends across 4 business units.

Senior Analyst (Developer) **October 2021 - December 2022**
Capgemini **Bangalore, India**

- Spearheaded customer-centric data migration initiatives, engineering solutions assured seamless upgrades, minimized downtime, and maintained operations for over 500 users, boosting client satisfaction.
- Solved 3 high-priority production site failures within a week, increasing operational efficiency.
- Initiated and led a cross-departmental workshop to streamline data migration processes, developing best practices reducing transition times by 10%.
- Awarded with Project Evolve and STAR award at Capgemini for enhancing both functional and technical aspects of project operations.

Analyst (Developer) **August 2020 - September 2021**
Capgemini **Bangalore, India**

- Collaborated across technical and business teams to identify and resolve workflow inefficiencies, enhancing system capabilities and improving user satisfaction by 15%.
- Facilitated regular Scrum meetings to promote alignment on project goals and transparency among stakeholders.
- Diagnosed and resolved over 200 complex support and development issues, collaborating with cross-functional teams to ensure continuous uptime and reliability of critical business systems.

PROJECTS

Citi Bike Trip Analysis **April 2024**
Arizona State University **Tempe , USA**

- Conducted a comprehensive analysis of Citi Bike trip data using Python and Pandas to uncover key usage trends, including peak times, popular routes, and user demographics.
- Leveraged D3.js to design interactive, data-driven visualizations for Citi Bike trip patterns, enabling real-time exploration and analysis of over 1 million trip records and improving insights into bike distribution and usage trends.
- Generated actionable insights by implementing machine learning models, including regression analysis, to predict user demand and optimize bike distribution, with an expected boost in efficiency of at least 25%.

Gesture Controlled Mouse Pointer **May 2020**
SRM Institute of Science and Technology **Chennai , India**

- Developed a gesture-controlled mouse pointer system using computer vision and machine learning algorithms to facilitate touchless interaction for physical input by 90% in environments such as healthcare and public kiosks.
- Employed OpenCV for real-time hand gesture recognition and TensorFlow to train machine learning models, increasing precision of hand-tracking and gesture interpretation.
- Enhanced user experience by integrating adaptive algorithms capable of adjusting to a range of lighting conditions from 50 to 2,000 lux and accommodating hand sizes from 6 to 12 inches in width.