

# YUVAK GIRISHBHAI PATEL

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## Experience

### NYU Robert F. Wagner School of Public Service

Jun'23 – Dec'24

*Software Engineer – Python Programming, Data Analytics, Data Visualization*

*New York City, NY*

- Worked on predictive analysis to improve admission numbers for certain courses, leading to a 40% increase in enrollments. Utilized data mining, functional programming, and data models to align product features with business objectives.
- Built and optimized ETL pipelines to efficiently integrate and process over 1M records into Salesforce and data warehouses, enabling real-time analytics, seamless data retrieval and improving insights-driven decision-making.
- Leveraged Python, SQL, and distributed storage tools like Tableau, Salesforce, and Excel to manage over 1M records. Engineered cross-functional BI dashboards to automate data ingestion and enhance data storytelling.

### TCA Bothra Classes

Mar'20 – May'22

*Full Stack Developer—Web Development, Backend Developer*

*Himatnagar, India*

- Spearheaded the development of a web platform using React for the frontend and Django with Python for the backend, ensuring seamless integration with web services and adherence to the software development life cycle.
- Managed distributed systems and data pipelines to handle large datasets, utilizing test automation techniques, including TDD and BDD, ensuring top-notch performance and scalability.
- Conducted data mining and automating insights through micro-services architecture, and enhancing data warehouse scalability. Designed and maintained distributed data pipelines handling 100K+ records, implementing scalable data warehousing solutions to enhance institutional decision-making and reporting.

### Wipro Technologies Pvt Ltd

Jul'18 – Jan'20

*Software Engineer—Automation, Customer Support*

*Bengaluru, India*

- Partnered with EA Sports on faspex test automation to enhance troubleshooting, user feedback, and support across OS platforms. Deployed services and workflows on ServiceNow, streamlining ticketing and approvals. Automated stakeholder approvals via email triggers, reducing turnaround from 2 weeks to under 40 hours and boosting efficiency by 85%.
- Developed ETL workflows for Cisco device logs using ServiceNow orchestration and scheduled jobs, integrating structured data into SQL-based distributed databases. Improved query performance and achieved a 94% TCP device upgrade success rate by leveraging SQL and Unix-based version control for secure, consistent automation.

## Projects

### IBM Cloud Python Web Application | Python, Flask, Docker, IBM Cloud | [link](#)

May'23 - Aug'23

- Developed and deployed a Python web app using Flask-RESTX on IBM Cloud with Cloudant, ensuring scalability and reliability. Applied Agile and DevOps practices for continuous integration, deployment, and performance optimization.
- Set up environments with Docker, optimizing storage and version control using Git.
- Implemented TDD and BDD for high-quality releases and seamless feature integration.

### Interactive Checkers Game Development | Javascript, WebGL, OpenGL

Sep'16 - Feb'17

- Pioneered a game development project using WebGL and OpenGL, integrating algorithm design principles to enhance the user experience and ensure compatibility across multiple operating systems.
- Applied test automation principles and utilized distributed systems for scalable gaming infrastructure.

### Groundwater Analysis using Fuzzy Logic | Statistics, Fuzzy theory, Predictive Analysis

Aug'13 - May'18

- Applied Fuzzy Logic and Fuzzy Automata to analyze groundwater properties with 92% accuracy, leveraging distributed storage for scalable computations and automating decision-making.
- Enhanced data analysis using statistics, data storytelling, and predictive analytics, optimizing research methodologies.

## Technical Skills

**Languages:** C++, Python, C, Javascript, Typescript, HTML/CSS, SQL, Java

**Developer Tools/Technologies:** Tableau, Android, PowerBI, NoSQL, SSIS Packages, React, Salesforce, Snowflake, MongoDB, Kubernetes, Cloud Services, AWS, MySQL, Ruby, numpy, pandas, matplotlib, TensorFlow, Scikit-learn, spark, Shell, adobe photoshop, Rest APIs, Linux, Databricks, Excel, Git, Go, Rust, Angular, Vue, bash, Oracle Services, shell, Kafka, PySpark, Hadoop, Terraform,wordpress, Service-Now Platform, XML, JSON, Selenium, Postgres, Visual Studio, Node, Angular, Scala, data structures, R, Slack, BigQuery, Apache Kafka, RabbitMQ.

## Education

### Courant Institute of Mathematical Sciences, New York University

Jan'23 – Dec'24

*Master of Science in Computer Science, OGPA: 3.75/4*

*New York City, USA*

### Indian Institute of Technology(Indian School of Mines), Dhanbad

Jul'13 – May'18

*Integrated Master of Technology in Mathematics and Computing, OGPA: 8.15/10*

*Dhanbad, India*

### Faculty of Engineering, University of Porto

Sep'16 – Feb'17

*Semester Exchange Programme: Masters in Information and Computing(Erasmus Scholarship)*

*Porto, Portugal*