

YUVAK GIRISHBHAI PATEL

☎ (+1)551-344-2498 ✉ ygp2005@nyu.edu [in yuvakpatel](#) [yuvakpatel](#)

Experience

NYU Wagner school of Public Service

June 2023 – Present

Data Engineer—DataAnalytics, Data Visualization

New York City, NY

- Leveraged Python, SQL, and distributed storage tools like Tableau, Salesforce, and Excel to extract, analyze, and manage over a 1M records. Integrated distributed systems to scale data pipelines, enhancing data-driven decision-making.
- Enhanced predictive analytics and customer service by utilizing data mining, functional programming and designing data models to align product features with business objectives, ensuring insights-driven decisions.
- Engineered cross-functional Business Intelligence dashboards to improve data storytelling and data visualization using Tableau, PowerBI, and Salesforce, automating data ingestion, ensuring compliance through quality assurance measures.

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 on 100K records, automating insights through micro-services architecture, and enhancing data warehouse scalability. Designed and implemented data models to align with institutional goals, while improving user feedback and user research. Integrated web development and algorithm design to optimize user experience.

Wipro Technologies Pvt Ltd

Jul'18 – Jan'20

Software Engineer— Automation, Customer Support

Bengaluru, India

- Partnered with EA Sports on 'faspex' applications for test automation, designing patterns to enhance troubleshooting, user feedback workflows, and improving customer service and application performance across operating systems.
- Automated infrastructure upgrades using Python scripting and SQL databases, achieving a 94% success rate in TCP device updates. Integrated quality assurance and utilized Unix for seamless software development life cycle and version control, ensuring consistent upgrades and optimized gaming application performance.

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, Javascript, Typescript, HTML/CSS, SQL, Java

Developer Tools/Technologies: Tableau, Android, PowerBI, NoSQL, SSIS Packages, React.js, Salesforce, Snowflake, MongoDB, Kubernetes, Cloud Services, AWS, MySQL, Ruby, numpy, pandas, matplotlib, Jupyter Notebook, TensorFlow, Scikit-learn, spark, Shell, adobe photoshop, Rest APIs, Linux, Microsoft Excel, Git, bash, Oracle Services, shell, Kafka, PySpark, Hadoop, Terraform,wordpress, Postgres, Visual Studio, Node, Angular, Scala, data structures, R, Slack, BigQuery, Apache.

Education

Courant Institute of Mathematical Sciences, New York University

Jan'23 – Dec'24

Master of Science in Computer Science, OGPA: 3.76/4

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