

# SHUBHAM GUPTA

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## EDUCATIONAL QUALIFICATION:

<b>Master of Engineering in Computer Science, Data Science</b> University of Cincinnati, Ohio	<b>April 2023</b> <b>GPA: 3.75/4.0</b>
<b>Bachelor of Technology in Computer Science</b> Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad, India	<b>July 2021</b> <b>GPA: 3.81/4.0</b>

## TECHNICAL SKILLS:

<b>Machine Learning:</b>	Regression analysis, Predictive Analysis, Clustering, Feature Engineering, SkLearn, PCA, Statistical Analysis, Algorithms
<b>Deep Learning:</b>	CNN, RNN, NLP, LSTM, LLM PyTorch, TensorFlow 2.0, Keras, Image Processing, OpenCV, RCNN, Yolo v7,
<b>Programming Languages:</b>	Python, R, C, C++, Java, PHP, dart, JavaScript, SQL
<b>Web Development:</b>	HTML5, CSS3, JavaScript, Nodejs, Postman, Flask, Django, Flutter, Fast API, REST API
<b>Databases</b>	MongoDB, PostgreSQL, MySQL, Oracle SQL
<b>Tools:</b>	Power BI, Tableau, Git, Docker, Visual Studio, Jupyter Notebook, Spark, Apache Kafka, Confluent, Terraform, Mage, Airflow, Jira, Jenkins
<b>Cloud Technologies:</b>	AWS, Azure, GCP
<b>Operating Systems:</b>	Linux, Windows, MacOS

## EXPERIENCE:

<b>Data Science Analyst, Eversoft Technologies LLC</b>	<b>September 2022 – Present</b>
<ul style="list-style-type: none"><li>Analyzed extensive datasets using SQL and Python to extract trends, revealing a 10% increase in user engagement.</li><li>Established databases, ETL pipelines, and reporting systems utilizing AWS Glue and Redshift.</li><li>Automated data collection, processing, and reporting workflows with Python and Apache Storm, improving efficiency.</li><li>Developed predictive model using Random Forest algorithm, reducing customer churn by 20%.</li><li>Engineered real-time Power BI dashboard, enhancing operational performance by 15%.</li></ul>	

<b>Computer Vision and ML Engineer, SwiftAI</b>	<b>September 2020 - March 2021</b>
<ul style="list-style-type: none"><li>Deployed a real-time image search engine, offering conditional recommendations, and effectively reducing customer search time by 40%.</li><li>Trained deep neural network models using PyTorch framework for classification purposes and constructed a user-friendly Flask-based interface.</li><li>Orchestrated Python workflows, integrating unit testing at crucial stages to ensure goal achievement within allocated budget and time constraints.</li><li>Implemented CI/CD pipelines with Jenkins and employed Git for version control.</li></ul>	

<b>Data Scientist, EkaLavya</b>	<b>August 2019 – August 2020</b>
<ul style="list-style-type: none"><li>Formulated and trained Naive Bayes model with 85% accuracy and 87% precision on sentiment analysis.</li><li>Optimized model's hyperparameters, achieving additional 5% accuracy through CI/CD practices.</li><li>Visualized results using WordCloud and confusion matrix.</li><li>Collaborated for model deployment via Docker containers and Kubernetes.</li></ul>	

## ACADEMIC PROJECTS:

<b>Faulty Sensor Detection</b>
<ul style="list-style-type: none"><li>Built a data pipeline to efficiently collect real-time sensor data, utilizing Kafka topics to feed MongoDB collections.</li><li>Conducted exploratory data analysis on 50,000+ data points, leading to enhanced data quality and reliability.</li><li>Trained and evaluated a ML model using XGBoost, achieving a predictive accuracy of 92% in fault detection.</li><li>Successfully deployed the model on Amazon EC2 and S3, improving system efficiency and sensor reliability</li></ul>

### **Diabetic Retinopathy detection**

- Developed an innovative medical image analysis platform using Python and OpenCV, achieving 92% diagnostic accuracy.
- Fine-tuned convolutional neural networks (CNNs) for accurate and reliable disease detection.

### **Solar Power Forecasting**

- Orchestrated an advanced LSTM neural network project for precise solar power generation prediction, enhancing energy grid management and reducing fossil fuel reliance.
- Constructed a comprehensive data pipeline integrating weather data, solar panel specs, and environmental factors, enabling accurate forecasts hours ahead.
- Demonstrated dedication to sustainability, positioning the project as a leader in renewable energy optimization.
- Implemented a streamlined data pipeline, collecting sensor data via Kafka into MongoDB, saving time on dataset creation.
- Conducted comprehensive exploratory data analysis, covering ingestion, transformation, and validation steps.

### **ETL Pipeline: SQS to PostgreSQL Transformation:**

- Developed ETL pipeline to process JSON data from AWS SQS to PostgreSQL, including data masking.
- Utilized Docker for local development with Localstack and PostgreSQL.
- Implemented parallel processing, error handling, and data validation for scalability and data integrity.
- Created comprehensive project documentation covering architecture, setup, and potential improvements.

### **PUBLICATION:**

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S. Gupta, K. Kavitha, P. Sharma, and R. V. S. Lalitha, "**Medicinal Plant Species Detection using Deep Learning**," 2022 *First International Conference on Electrical, Electronics, Information and Communication Technologies (ICEEICT)*, Trichy, India, 2022, pp. 01-06, doi: [10.1109/ICEEICT53079.2022.9768649](https://doi.org/10.1109/ICEEICT53079.2022.9768649).

### **CERTIFICATIONS:**

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- **PowerBI Virtual Case Experience** by **PwC Switzerland**
- **Data Science Virtual Experience Programme** by **British Airways**
- **PCAP- Programming Essentials in python** by **Cisco**