

APURVA BANKA

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ABOUT ME:

I am a Computer Science Graduate student at SUNY Buffalo with 4+ years of experience in full-stack development, data engineering and microservices. I am an active open-source contributor. I am a Fitness enthusiast and love playing table tennis in my free time.

TECHNICAL SKILLS

Languages: Python, Java, C++, Dart

Web & Frameworks: Spring Boot, FastAPI, Flutter, Kafka, Django, Celery, React

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, GCD

Databases & Big Data: MongoDB, Snowflake, PostgreSQL, Redis, Spark, EMR

Monitoring & Logging: Snow-sight, Grafana, Selenium

Tools & OS: Git, Confluence, Jira, Sonar, Linux, macOS, Windows, Ubuntu

WORK EXPERIENCE:

Senior Software Engineer - OPTUM, UHG, Bangalore, Karnataka **January 2023 - July 2024**

- Created ETL operations for Longitudinal Data Processing with a member base of 130M+
- Designed and deployed a serverless ETL workflow with AWS Lambda, SNS, and SQS, achieving full automation improved efficiency and cost savings.
- Key Technologies - AWS, EMR, S3, Scala, Python, Jenkins

Software Engineer - OPTUM, UHG, Bangalore, Karnataka **July 2020 - December 2022** • Member of the DWaaS team (DataWarehousing As a Service).

- Implemented a multi-tenant model on a Snowflake Account used by 30+ tenants managing RBAC and implemented automated deployments.
- Led the support process for a DWaaS application, automating request validation and deployment, reducing response time to less than an hour
- Built an Automated Email Notification App for Downtime Updates using SpringBoot.
- Key Technologies - Python, poetry, typer, Snowflake, Groovy, Jenkins, GitHub APIs, Java, SpringBoot.

INTERNSHIPS:

SDE Intern, Shadowfax Technologies, Bangalore, Karnataka **January 2020 - June 2020** • Backend Developer for Frameworks like Django and Angular

- Implemented Bulk Uploading using asynchronous task queue (Celery), worked on automated Python scripts for DB updates

Android App Development Intern, SAIL, Ranchi, Jharkhand **May 2018 - June 2018** • Developed an Automated QR Attendance Management System Android app using Java, MySQL, and OOPS

INDEPENDENT PROJECTS:

InsightQuery December 2024 - January 2025 • Developed a prompt based AI analytics tool, reducing manual data analysis efforts and accelerating insight generation. • Integrated LLaMA improving efficiency and accessibility of AI-powered insights. • Developed and deployed the app using Streamlit creating interactive plots and graphs.

Forecaster **September 2024 - November 2024** • Using Various Analytics Techniques To Predict Order Patterns For Restaurants and delivery executives • Leveraged ML models and prediction models to implement real time use cases. • Built a dashboard on Flutter with a Django backend.

IPL Match Prediction tool **July 2018 - December 2018** • Designed a tool to predict match results for the year 2018, trained using match data from 2017 and before as input.

- Incorporated ML concepts like Decision Trees, Big Data Concepts like MapReduce, MLlib, and clustering using Scala, Big Data, AWS, Python, Cloud Computing, and DBMS

Predicto **January 2020 - May 2020** • App built to reduce the delivery time of any order placed at a restaurant using Django, Rest API, and Flutter

- Used Time-Series Forecasting to predict the expected number of orders using concepts like Python and ML, and K-means clustering to predict the area with a surge in orders

EDUCATION:

MS In Computer Science, SUNY, Buffalo, **Aug 2024 - Present**

B.Tech In Computer Science, PES University, Bangalore 8.32/10 **2016-2020**

PUBLICATIONS

Apurva Banka, Ashutosh Sharan, Suranani Lohith Kumar, *Bike Count Sharing Prediction Using Machine Learning*, International Journal of All Research Education & Scientific Methods **2023** ID - IJ-0809230954

- Project employs a systematic approach, beginning with Descriptive Analysis to understand the data, followed by Missing Value Analysis and Outlier Analysis to ensure data integrity. • Model Selection determines that Random Forest Regression is the best choice for predicting hourly bike counts.

TECHNICAL CERTIFICATIONS:

- Flutter Development Course Android Developer Course **May 2021** • Administrator Snowflake Training **January 2021** • Web Development Bootcamp **August 2019**

ACTIVITIES AND ACHIEVEMENTS:

- Built AR/VR application on Unity for Hackathons **October 2021** • Received Excellence Award at Optum for Performance **February 2020** • Campus Representative for Shiksha.com **August 2016 - May 2018** • Solved 300+ coding problems on various coding platforms
- Hacktoberfest participant contributing to different open source repos. • Active Open Source Contributor.