

# SANKALP TRIPATHI

682-244-7795 | Arlington, TX | [sankalpvk18@gmail.com](mailto:sankalpvk18@gmail.com) | [linkedin.com/in/sankalpvk18](https://www.linkedin.com/in/sankalpvk18) | [github.com/sankalpvk18](https://github.com/sankalpvk18)

---

## EDUCATION

### Master of Science, Computer Science

Aug 2022 - May 2024

University of Texas at Arlington

*Design and Analysis of Algorithms, Database Systems, Distributed Systems, Data Analysis and Modelling Techniques, Artificial Intelligence, Machine Learning, Neural Networks*

### Bachelor of Technology, Computer Science & Engineering

Aug 2014 - May 2018

Biju Patnaik University of Technology

*Object-Oriented Programming, Data Structures, Database Management, Compiler Design, System Design, Operating System, Machine Learning, Computer Networking*

---

## TECHNICAL SKILLS

- *Programming Languages:* Java, Kotlin, Python, JavaScript, Swift
  - *Mobile Development:* Android (SDK/NDK, Jetpack Compose), iOS (SDK), React Native
  - *Web Technologies:* React, Angular, Typescript, HTML, CSS, RESTful APIs, Node.js
  - *Databases:* SQL, MySQL, Room
  - *Development Tools:* Android Studio, XCode, GitHub, Figma, Postman, BitBucket, Jenkins
  - *Project Management:* Agile, Scrum, JIRA
  - *Testing Tools:* Unit Testing, Functional Testing, CI/CD pipelines
- 

## WORK EXPERIENCE

### Data Science Intern, Duke.ai, Dallas, US

June 2023 - January 2024

- Optimized the image processing pipeline, boosting document accuracy by 30% and data handling efficiency.
- Implemented NLP techniques for data extraction, improving retrieval accuracy by 25%.
- Used Python & Pandas for data analysis, boosting operational efficiency by 20%.

### Sr. Software Engineer, Divami Design Labs, Hyderabad, India

July 2019 - June 2022

- Engineered Android and iOS apps for a trucking company, integrating 10+ key features such as SDK management, subscription models, media uploads, and in-app purchases; increased revenue by 45%, reduced crash rates by 60%, and successfully managed app store launches.
- Collaboratively developed a financial planning Android app, incorporating MVVM to boost codebase efficiency and reusability by 45%, ensuring faster updates and greater scalability. Leveraged Android Jetpack components, such as LiveData and ViewModel, to build scalable and maintainable apps, reducing crash rates by 20%.
- Spearheaded a successful iOS application development Bootcamp followed by a Hackathon, providing training to 15+ employees.
- Managed a team of 3 in delivering a backend project with Spring Boot and React, designing an SQL database, and integrating multiple payment gateways, boosting financial performance by 20%.

### Software Engineer, Divami Design Labs, Hyderabad, India

Oct 2018 - June 2019

- Contributed to front-end development for a Dubai-based payment gateway solutions provider, implementing multiple features such as enhancing platform security by approximately 32% by integrating reCaptcha.
  - Troubleshooted and fixed critical production bugs and improved the performance of a fitness-tracking Android application.
- 

## ACADEMIC PROJECT & INTERNSHIP

### StudentSwap - Cross-Platform Mobile Application

03/2024 - Present

- Designing and developing a user-friendly cross-platform mobile application that streamlines the exchange of second-hand goods within the university community.
- Implementing Firebase for real-time database, authentication, and analytics to enhance user experience.
- Utilizing React Native framework for the development and Figma for UI designing.

### Predictive Modeling through Telco Customer Churn

06/2023-08/2023

- Built and optimized machine learning models (Logistic Regression, Random Forest, XGBoost) to identify potential customer churn, achieving an ROC-AUC score of 0.85.
  - Engineered features like tenure groups and customer segments, using SHAP and LIME for model interpretability and uncovering key churn predictors like contract type and monthly charges.
  - Deployed the model with Flask for API access and generated reports, improving churn prediction accuracy by 15%.
- 

## CERTIFICATION & ACCOMPLISHMENT

- Employee of the Year (2021); Employee of the Month (Oct 2019, Jan 2020, Dec 2020).
- Achieved a gold badge on the coding platform Hackerrank for problem-solving.
- Machine Learning Specialization — DeepLearning.AI & Stanford University.