SANKALP TRIPATHI

682-244-7795 | sankalpvk18@gmail.com | linkedin.com/in/sankalpvk18 | sankalptripathi.com

---

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*

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:* Python, Java, Kotlin, JavaScript, Swift
- *Mobile Development:* Android (SDK/NDK, Jetpack Compose), iOS (SDK), React Native
- *Web Technologies:* React, Angular, Typescript, HTML, CSS, TailwindCSS, 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 - Jan 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.
- Developed a financial planning Android app using MVVM architecture, leveraging Jetpack components like LiveData and ViewModel to boost codebase efficiency and reusability by 35%, ensuring faster updates and greater scalability.
- Spearheaded a successful iOS development Bootcamp and Hackathon, training 15+ employees and producing 5 new app prototypes, enhancing team skills in Swift and iOS development.
- Led and managed a team of 3 in delivering a critical backend project using Spring Boot and React, including the design of the SQL database. Successfully integrated multiple payment gateways to enhance financial performance by approximately 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.
- Performed troubleshooting to fix critical production bugs and improved the performance of a fitness-tracking Android application.

ACADEMIC PROJECT & INTERNSHIP

StudentSwap - Cross-Platform Mobile Application   *March 2024 - Present*
- Designing and developing a user-friendly cross-platform mobile application that streamlines the exchange of second-hand goods within the university community.
- Utilizing React Native framework for the development and Figma for UI designing.

Predictive Modeling through Telco Customer Churn   *June 2023 - Aug 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%.

ACCOMPLISHMENTS

- 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.
- Generative AI with Large Language Models — DeepLearning.AI & Amazon Web Services.