# Abhijeet Sahdev

Newark, New Jersey
862-800-8204 as4673@njit.edu abhijeet-sahdev jeet1912 https://jeet1912.github.io

## SUMMARY

Results-driven Software Engineer with expertise in full-stack development, cloud infrastructure, and machine learning. Keen to innovate in Software Engineering and Machine Learning Engineering roles, bringing technical excellence and a proven ability to tackle complex challenges.

## EDUCATION

**Ying Wu College of Computing, NJIT** **Jan 2024 – May 2026**
*M.S in Artificial Intelligence -* ***CGPA - 3.58/4*** *Newark, USA*

**Manipal Institute of Technology, MAHE** **Jun 2017 – Aug 2021**
*B.Tech in Computer Science and Engineering -* ***CGPA - 7.83/10*** *Manipal, India*

## EXPERIENCE

**MyHealthToday** **Dec 2020 – Jun 2021**
*Software Engineering Intern* *Remote*

- Developed a cross-platform front-end using React for web browsers and React Native for mobile apps, ensuring responsiveness across devices through collaboration with the CTO and technical problem solving.
- Created comprehensive test suites to verify application adherence to design specifications and compatibility with target customer devices, enhancing reliability.
- Implemented design patterns (adapter, state, observer) using React-Redux while typing maintainable code to establish a single source of truth, optimizing state management for the mobile app.
- Standardized record formats in DynamoDB tables via scripting, proactively preventing future run-time errors.
- Developed microservices using serverless AWS Lambda in a distributed, event-driven architecture, contributing to a scalable and fault-tolerant backend serving both mobile and Alexa applications.
- Designed, implemented, and deployed RESTful APIs using SAM CLI and AWS CI/CD tools, streamlining resource creation and reducing client-side processing time by 16%.

## PUBLICATIONS

**Statistical Analysis of Sentence Structures through ASCII, Lexical Alignment and PCA** **Mar 2025**
*A. SAHDEV*, arXiv

## PROJECTS

**Study of Selected Clustering Algorithms with Generated Datasets** | Python **Nov 2024**

- Performed data mining in benchmarking unsupervised ML algorithms such as K-Means and Hierarchical Agglomerative Clustering on GenAI-generated datasets with outliers removed using IQR to enhance pattern discovery.
- Achieved top silhouette scores with K-Means on Dataset 1 (0.359, 3 clusters) and Dataset 2 (0.625, 2 clusters), and with Agglomerative on Dataset 3 (0.984, 2 clusters.)

**Analyzing Oxford Government Response Tracker Dataset** | Python, Scikit-Learn **Apr 2024**

- Conducted data engineering, data wrangling and cleaning appending suitable columns with appropriate imputation strategies followed by exploratory data analysis on a dataset with 56 columns and 202,760 tuples.
- Curated experiments through research for two supervised machine learning approaches multivariate linear regression on daily mortality rates, achieving an $R^2$ score of 0.974 and MSE of 0.0003 and daily policy effectiveness using a decision tree classifier with an F1 score of 0.984.

**Open Source Contribution** | React Native **Apr 2021**

- Introduced a boolean argument to display number of selected_items in react-native-multiple-select by toystars [**550+ stars, 500k+ downloads**].

## SKILLS

**Languages:** Python, Javascript, C++, Java, Dart, SQL, No-SQL
**AI/ML Libraries:** scikit-learn, PyTorch, TensorFlow
**Frameworks/Tools:** Django, React, React Native, Flutter, Git, AWS, Docker, MySQL