

# Akshat Tiwari

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## 📁 Professional Experience

- Dukaan, Software Developer** 03.2022 – 08.2022 | Philadelphia, USA
- Integrated Firebase Firestore resulting in a 20% decrease in data retrieval time
  - Implemented Stripe payment gateway, leading to a 30% increase in successful transactions – generating ~ \$2000 profit in 30 days
  - Contributed to a team of developers achieving 90% adherence to project timelines & successfully built a Shopify store
- Vanguard, Investment Management Fintech Strategy Coop** 04.2021 – 07.2021 | Philadelphia, USA
- Collaborated with engineers on various web applications for investment management
  - Worked as a full-stack developer using VueJS, GraphQL, Python, and AWS tools
  - Created testing environments and standards for current and future projects to follow
  - Interacted directly with product owners to translate user needs into software solutions
- Drexel Wireless Systems Lab, Drexel University, Research Assistant** 09.2020 – 12.2020 | Philadelphia, USA
- Assisted in developing machine learning and deep learning models to monitor infant breathing patterns in ICU settings using biomedical sensors
  - Contributed to algorithm design, signal processing, and mathematical modeling to automate ventilator support adjustments
  - Collaborated on code development, achieving over 90% accuracy in real-time detection and response

## 📁 Projects

- Software Engineering Virtual Internship, Walmart Global Tech** 07.2023
- Developed a novel version of a heap data structure in Java for Walmart's shipping department
  - Designed a UML class diagram for a data processor, considering different operating modes and database connections
  - Created an entity relationship diagram to design a new database accounting for all requirements provided by Walmart's pet department
- Data Science Virtual Internship, British Airways** 04.2023
- Scraped and analysed customer review data on the web
  - Built a predictive machine learning model to understand factors that influence buying behaviour
  - Developed using Python and Jupyter Notebook
- Data Analytics Virtual Internship, KPMG** 11.2020
- Conducted data analysis for client using Data Exploration, Model Development, and Data Interpretation targeting 1000+ customers in 30 days
  - Created an interactive recency, frequency, and monetary dashboard to improve prediction accuracy by 25% using Microsoft Excel
- Technology Consulting Virtual Internship, Deloitte** 08.2020
- Conducted a pre-market evaluation enhancing presentation outcome
  - Researched cloud computing solutions, advising clients on potential benefits and risks of suitable computing environments, resulting in 30% reduction in operation costs
  - Analysed client requirements, devised a 60% more effective business model, and implemented cost estimation plans
- Software Engineering Virtual Internship, JP Morgan Chase & Co** 07.2020
- Fixed broken files in the repository to make client-side web application output correctly
  - Used JPMorgan Chase's open source library called Perspective to generate a live graph that displays a data feed in a clear and visually appealing way for traders to monitor

## 🧠 Skills

**Languages:** Python, R, C/C++, JavaScript, TypeScript, Java, SQL

**Tools and Frameworks:** Django, Node.js, jQuery, React, Vue.js, Pandas, Numpy, Matplotlib, Tailwind, Git, Figma

## 🎓 Education

**Indian Institute of Technology, Guwahati,** 09.2024 | Guwahati, India  
*Bachelor of Science in Data Science and AI*