

## DIXIT JAYESH PATEL

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### EDUCATION

**Pace University, Seidenberg School of Computer Science and Information Systems**  
Master of Science (MS) in Computer Science | **GPA: 3.9** | **Concentration:** Data Science

New York, NY

**Expected: May 2026**

**Silver Oak University**

Bachelor of Technology (BTech) in Computer Engineering | **GPA: 3.9**

Ahmedabad, India

Nov 2020 - May 2024

### TECHNICAL SKILLS & CERTIFICATIONS

**Programming Languages:** C++, Python, Java, SQL, HTML, CSS, JavaScript, React, NodeJS, Hive **Libraries:** Pandas, NumPy, Scikit-learn

**Data Visualization:** Power BI, Looker Studio **Machine Learning:** XGBoost, Linear Regression, Logistic Regression, ETL, NLP

**Database Management System:** MySQL, MongoDB, Hadoop **Cloud & DevOps:** AWS EC2, S3, RDS, IAM, VPC, Lambda, API Gateway, Auto Scaling, ELB, CloudWatch, CloudTrail, CloudFormation, Route 53, AWS Well-Architected Framework, Security Groups, CI/CD

#### Certifications

AWS Certified Solutions Architect ([Link](#))

May 2025

AWS Certified Cloud Practitioner ([Link](#))

Apr 2025

### WORK EXPERIENCE

**Data Analyst Intern**

May 2025 – Present

**Aspire High Youth Development Inc.**

New Jersey NJ

- Analyzed student performance data & key metrics across multiple platforms to inform instructional & strategic decisions.
- Developed visual reports & dashboards for educators, administrators, & stakeholders, highlighting trends, program outcomes, & areas for improvement.
- Supported data-driven initiatives by maintaining databases, assisting in grant reporting, & ensuring data integrity & compliance with privacy standards.

**Python Developer**

Jan 2023 – Apr 2024

**Brainy Beam Technologies Pvt. Ltd.**

Ahmedabad, India

- Developed mobile app in Android Studio using Python enabling students to navigate academics, collaborating with 10 Frontend Developers to design user interface with student & admin login views
- Integrated API & OTP authentication to enable secure login, developing 10+ profile creation & account navigation features in backend allowing admin users to easily create timetables & map course details
- Deployed debugging techniques to troubleshoot coding errors, flagging errors for backend developers & testing frontend to ensure optimization, reducing bugs & technical debt yielding maintainable & scalable codebase

**Data Science & Machine Learning Intern**

Jun 2022 – Jul 2022

**STYPIX**

Ahmedabad, India

- Cleaned stock dataset with 50k+ points using Python, removing null, missing, & outlier values & ensuring data wholeness before conducting Exploratory Data Analysis (EDA), transforming data into actionable insights to senior leaders
- Visualized stock price & fluctuations using Pandas via line & bar graphs to identify trends, performing linear & logistic regression to forecast price changes, achieving 70-75% predictive accuracy using linear regression models

### ACADEMIC PROJECTS & EXPERIENTIAL LEARNING

**Computer System Design & Development with CaterPal Technologies**

Mar 2025

- Collaborated in team of 4 to design NLP-infused AI chatbot for tech startup, supporting integration with restaurant websites allowing users to receive menu recommendations based on inputs including budget & dietary restrictions
- Designed prototype using OpenAI API keys, NLP, Spacy, & NLTK, presenting functionality to CaterPal leadership team

**QuickQuest: Natural Language Processing / Generative AI Tool**

Feb 2025

- Built NLP-infused gen AI tool using LangChain & Retrieval-Augmented Generation (RAG) to extract information from PDF knowledge bases, designing pipeline using OpenAI to parse documents & provide context-aware answers
- Integrated vector database to efficiently store & query embeddings, ensuring high-accuracy responses

**Credit Card Financial Dashboard using Power BI**

Nov 2024

- Developed interactive dashboard using transaction & customer data extracted from SQL database to provide real-time insights to stakeholders, streamlining data processing & analysis to monitor performance metrics & trends
- Delivered actionable insights, including a 28.8% weekly revenue growth and 99.25% customer growth in Week 53, influencing strategic business decisions.