

# Ujjawal Patel

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## EDUCATION

### Texas A&M University, Mays Business School

Master of Science in Management Information Systems

College Station, Texas

May 2027

**Relevant Coursework:** Business Information Systems, Technical Analysis of Financial Markets, Advanced Database Management, Advanced Systems Analysis, and Project Management

### K.J. Somaiya College of Engineering

Bachelor of Technology in Computer Engineering

Mumbai, Maharashtra

May 2025

Honors degree in Cybersecurity, Forensics, and Cyber Laws

**Relevant Coursework:** Database Management Systems, Probability and Optimization Techniques, Data Structures, Artificial Intelligence, Cloud Computing, and User Experience Design

## EXPERIENCE

### ESPS Financial Services Ltd.

Business Analyst Intern

January 2025 – June 2025

- **Built dynamic financial models** in MS Excel to structure investment product catalogs, enabling data-driven portfolio diversification of over 40% across multiple asset classes.
- **Developed automated data analysis scripts** using Pine Script and Python, along with risk management protocols, reducing manual research time by 50 minutes and improving trade signal accuracy and price-action forecasting.
- **Backtested enterprise-level algorithms using Python** for pair trading strategies, executing automated long/short positions based on price gap analysis between correlated securities, increasing profitability of the trades from 4/10 to 7/10.

### DeepCytex Cyberlabs (UK)

Forensic Analyst Intern

June 2024 – December 2024

- Developed automated scripts to streamline data collection workflows, improving operational efficiency by 35% and establishing standardized process documentation; authored user manuals and checklists for risk mitigation procedures.
- Designed hardware-based risk mitigation solution through research and stakeholder collaboration, resulting in field-deployable prototype and enhanced security measures.

## PROJECTS

### Signal Confidence Engine,

December 2025

[Project link](#)

Built a multi-timeframe technical analysis platform that converts market data into explainable confidence scores using trend, momentum, volume, and Fibonacci analysis. Designed weighted scoring models to reduce false signals and improve decision reliability. Developed interactive financial data visualizations and deployed a production-ready **analytics dashboard** using Next.js and TypeScript.

### Sector ETF Analyzer (SEA),

October 2025

[Project link](#)

Deployed dashboard enabling users to visualize sector rotation trends in real-time, reducing time required for comparative asset analysis by ~40%; integrated real-time data for improved analytics, including Sharpe/Alpha metrics, delivered a responsive platform demonstrating knowledge in financial modelling and **data visualization**

### Financial Investment Advisory Portal,

November 2024

Designed and delivered web portal that reduced users' investment research time by matching them with tailored products based on risk, goals, tenure, age, and spending patterns; led market and user research to define parameters for recommendation engine, and managed end-to-end project execution, ensuring an intuitive UX and actionable investment insights

## SKILLS & CERTIFICATIONS

### Business/Data Analytics & Programming:

- **Languages:** Python (Pandas/NumPy for Finance), SQL, Java, C, Bash Scripting, TypeScript.
- **Visualization:** Power BI, Streamlit, Data Visualization, Reporting & Dashboards, ETL/ELT Processes.
- **Methodologies:** Requirement Gathering, User Stories, Stakeholder Management, Process Documentation.

### Certifications:

- **Artificial Intelligence:** AWS Certified AI Practitioner | **Finance:** Bloomberg Market Concepts (BMC).
- **Management:** Google Project Management Professional Certificate (Foundations, Planning, Initiation, Execution).

### Financial Analysis & Modeling:

- **Core Competencies:** Financial Modeling, Technical Analysis, Equity Research, Derivatives & Algorithmic Trading.
- **Tools:** Bloomberg Terminal (BMC Certified), MS Excel ( Financial Functions and Modeling), Pine Script