PALAK GUPTA

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EDUCATION

University of California, San Diego Sept 2022 – Jun 2026
B.S. Mathematics–Computer Science *La Jolla, CA*

EXPERIENCE

AI Solutions Architect Sept 2025 – Present
ClearDesk *La Jolla, CA*
- Architected an **AI/ML recommendation engine** reducing time-to-match by **50%**, boosting placement accuracy.
- Automated client reporting with **NLP pipelines** generating weekly CRM updates, increasing client retention.
- Designed **AI workflows (Zapier, n8n)** reducing recruiter overhead **40%**, enabling MLOps-ready deployment.

AI Automation Developer Jul 2025 – Aug 2025
Asistee *Tokyo, Japan*
- Engineered an **AI scheduling agent** (Java, Python, SQL, Google Maps API) reducing assignment time **50%**.
- Deployed multilingual **address-translation pipelines** with OpenAI API cutting duplicate entries by **90%**.
- Delivered real-time **dashboards (Looker Studio, SQL)** accelerating strategic business decisions.

Data Analyst Intern Jun 2024 – Aug 2024
POiN *Madrid, Spain*
- Optimized **SQL data models and warehouse schemas** for **100K+** records, improving query performance **40%**.
- Applied **scikit-learn NLP models** for personalization, lifting recommendation relevance by **30%**.
- Delivered stakeholder reports aligning analytics with growth targets, performing **business requirements gathering**.

Finance Analyst Oct 2023 – Jun 2024
Office of Finance & Resources – UC San Diego *La Jolla, CA*
- Analyzed an **$8.3M budget using variance analysis, financial modeling** cutting overhead **10%**.
- Automated forecasting workflows in **Excel, SQL, Power BI** improving budget accuracy, cutting cycle time.
- Translated financial insights into **process improvement initiatives and long-term planning strategies**.

Vice President of Finance Jun 2023 – Jun 2024
Business Council – UC San Diego *La Jolla, CA*
- Automated reporting pipelines in **Power BI + SQL** reducing manual errors and strengthening financial transparency.
- Led **stakeholder management, gathered business requirements, and documented user stories**.
- Collaborated with cross-functional teams in an Agile/Scrum framework, enabling data-driven decision-making.

PROJECTS

AI-Powered Applicant Tracking System (ATS) | *ML, Systems Design* Sep 2025
- Designed NLP pipelines with **spaCy** for entity extraction and **BERT embeddings** for semantic similarity; implemented **cosine similarity + logistic regression models** for candidate–role scoring and cultural fit analysis.

ERP/CRM Data Integration & BI System | *Data Engineering, Data Warehousing* Aug 2025
- Built multi-layer **ETL pipelines (Bronze→Silver→Gold)** and a **star-schema warehouse** integrating ERP/CRM sources; engineered KPIs (AOR, churn, retention cohorts) and BI-ready datasets powering ML models and dashboards.

Talent Intelligence Dashboard | *Data Visualization, KPI Design* Aug 2025
- Engineered an **interactive Tableau dashboard** by transforming HR data with SQL/ETL workflows; built calculated fields and KPIs to analyze demographics, hiring/termination trends, compensation, and retention health.

TECHNICAL SKILLS

Programming & Data: Python, SQL, Java, R, MATLAB, C/C++
Data Analysis & BI: Data Cleaning, EDA, Data Validation, Tableau, Power BI, Looker Studio, Excel (VBA, Macros, Pivot, Index/Match), ETL, Data Warehousing (Snowflake, Redshift, BigQuery, SQL Server), KPI Development, A/B Testing, Hypothesis Testing, Data Governance, Reporting & Dashboards
Business Analysis: Gap Analysis, Use Cases, Process Mapping, Functional Specifications, Profit & Loss Statements
AI/ML: Machine Learning, Deep Learning, NLP, Predictive Modeling, Recommender Systems, Feature Engineering, Time-Series Forecasting, Model Deployment, MLOps
Cloud & Tools: AWS (SageMaker, Redshift, Lambda), Azure ML, Google Cloud, Docker, Databricks, Airflow, MLflow