**LAVANYAA GUPTA**

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**PROFESSIONAL SUMMARY**

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Data Science student with 2+ years of hands-on analytics experience and proven ability to transform complex data into actionable business insights. Skilled in Python, R, SQL, and business intelligence tools with demonstrated expertise in statistical modeling, machine learning, and data visualization. Strong collaborator with leadership experience and track record of delivering high-impact analytical solutions that drive organizational value and support strategic decision-making in fast-paced, client-focused environments.

**EDUCATION**

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**• GPA:** 3.75 **| Dean's List:** Fall 2022 - Spring 2025 **| Phi Beta Kappa Honor Society**

**• Relevant Coursework:** Statistical Modeling & Inference, Machine Learning, Financial Analytics, Database Management, Business Intelligence, Data Analysis in R & Python

**• Honors Thesis:** Deep learning CNN models for cancer identification from MRI/fMRI imaging

**EXPERIENCE**

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**K2 Development Company** **|** Palo Alto, CA *Jun ‘25 – Present*

*Data Science Intern*

• Engineered comprehensive financial analysis system using Python with advanced data cleaning, preprocessing, and object-oriented programming to evaluate development investments and optimize resource allocation

• Designed interactive ROI optimization dashboards with scenario modeling and what-if analysis, enabling stakeholders to evaluate financial performance across multiple investment strategies and drive data-informed decision-making

**Translational Genomics Research Institute (TGen)** | Phoenix, AZ *Jun ‘24 – Aug ‘24*

*Bioinformatics Intern, Helios Scholars Program*

• Developed 25+ automated data processing scripts using Bash and R, streamlining data extraction workflows and implementing quality assurance protocols for large-scale datasets, reducing manual processing time by 60%

• Conducted comprehensive exploratory data analysis on 12+ complex datasets, identifying significant patterns and correlations using advanced statistical modeling techniques to support research objectives

• Built predictive analytics workflows and enhanced classification model performance by 15% through feature engineering and data preprocessing optimization, demonstrating ability to deliver measurable improvements

**Brain, Epigenetics & Altered States of Consciousness (BEAR) Research Lab** | Phoenix, AZ *May ‘23 – May ‘24*

*Computational Research Assistant*

• Founded and led bi-weekly "Introduction to R" training program for 15+ team members

• Conducted advanced statistical analyses including ANOVA, multiple regression, and correlation analysis

• Managed multiple concurrent analytical projects while maintaining high standards of accuracy and meeting deadlines

**Study of Circuits in Adolescent Life (SOCIAL) Neurobiology Lab** | Tempe, AZ *May ‘23 – May ‘24*

*Research Assistant*

• Performed comprehensive data annotation and model training for deep learning applications, achieving >90% accuracy in automated pattern detection through rigorous model optimization

• Reduced manual analysis time by 40% through implementation of machine learning solutions for behavioral pattern recognition, demonstrating ability to identify process improvement opportunities

• Managed large-scale datasets and applied rigorous quality control processes to ensure data integrity

**TECHNICAL SKILLS**

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**Programming & Analytics:** Python, R, SQL, Java, MATLAB, Bash, PySpark  
**Business Intelligence:** Power BI, Tableau, Excel (Advanced), Shiny Dashboards **Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Statistical Modeling, Predictive Analytics

**Data Management:** Database Design, Data Cleaning, ETL Processes, Data Visualization, Quality Assurance **Cybersecurity & Risk:** Risk Management, Data Security, Compliance Analysis