

# Shrey Anuj Singh

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## DATA & INSIGHTS PROFESSIONAL

Experienced Analytics professional with a track record of 3 years in data analysis and modeling domain. Seeking a challenging data science role to leverage my skills and experience in delivering data-driven solutions that drive business outcomes

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## KEY COMPETENCIES

### Python Libraries

Beautiful Soup | Pandas | Numpy  
Matplotlib/Seaborn/Plotly | Sci-kit |  
TensorFlow | PyTorch | Keras |  
NLTK | Spacy

### Statistics

Statistical Testing (ANOVA) |  
Descriptive Statistics | Statistical  
Modeling | Predictive Analytics

### CI/CD Pipeline and Deployment

GitHub Actions | Flask | Docker |  
Heroku | Streamlit | Streamlit Cloud |  
Render | AWS | Azure | GCP

### Machine Learning

Linear Regression | Logistic  
Regression | Decision Tree |  
Random Forest

### Natural Language Processing

Tokenization | Text Pre-Processing |  
Word Embeddings | Transformers

### Analytics

Power BI | Microsoft Excel | Microsoft  
Power Point

### Deep Learning

ANNs | CNNs | RNNs | LSTM |  
Transfer Learning

### Database

MySQL | MongoDB

### Version Control Tools

(Git | Github | Gitlab)

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## PERSONAL PROJECTS

### Site Energy Intensity Prediction

- Problem: Reduce buildings' energy consumption through easy fixes and advanced strategies
- Addressed the critical role of buildings responsible for 37% of global energy-related and process-related CO2 emissions in 2020
- Utilized building characteristics, weather data, and energy usage information to significantly reduce energy consumption in buildings through predictive analytics
- Developed Streamlit web application to gauge site energy usage intensity of commercial and residential buildings powered by state of art ML algorithms

### TEXT SUMMARIZATION

- Developed a web application using NLP techniques to automatically generate concise and coherent summaries from lengthy text documents.
- Implemented cutting-edge algorithms to extract key information and reduce the length of content while preserving its meaning.
- Designed a user-friendly interface for easy input and output of text documents.
- Integrated the app with backend NLP models for real-time summarization.

## Image Segmentation (Water Body Segmentation in Satellite Images)

- **Problem:** Segment the water bodies from Sentinel-2 Satellite images
- Utilized NWDI (Normalized Water Difference Index) with an enhanced threshold for precise water detection
- Employed advanced image processing techniques and computer vision algorithms
- Utilized deep learning frameworks such as TensorFlow and PyTorch for model development
- Achieved highly accurate water body segmentation results, improving upon traditional satellite image analysis methods
- Contributed to better understanding and monitoring of water bodies, crucial for environmental assessment

## PROFESSIONAL EXPERIENCE

Aug 2021 - Present

### Escalent (Previously Grail Insights)

#### Senior Analyst

- Developed and implemented a data model that accurately predicted flight prices based on time series data, resulting in a 15% reduction in pricing errors for a top airline company
- Conducted Sentiment Analysis on Customer Feedback to improve product features for a product marketing team, resulting in a 30% increase in customer satisfaction scores and a 15% increase in product adoption rates
- Designed customer Personas for an email marketing company, resulting in a 30% increase in conversion rates and a 25% reduction in customer churn

### Universal Data Solutions

Aug 2020 - Aug 2021

#### Analyst

- Utilized advanced database queries to extract financial details and M&A transactions for 20+ companies from sources such as Capital IQ and Hoovers, providing essential data for market research and investment analysis
- Collected and analyzed financial data for 50+ top retailers and tech companies, resulting in the development of comprehensive company databases for a leading financial research firm

### Asia Research Partners

Jul 2019 - Aug 2020

#### Associate Consultant

- Conducted market sizing and estimation by analyzing syndicated reports, resulting in actionable insights for product introductions, modifications, and marketing campaigns.
- Analyzed survey and questionnaire data, organizing and presenting it in statistical tables, dashboards, and reports.

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## EDUCATION

### Bachelor of Technology

Applied Petroleum Engineering Upstream  
University of Petroleum and Energy Studies

## COURSES

### Full Stack Data Science

Ineuron