

# PRASHANT SHUKLABAIDYA

| 1121 24<sup>th</sup> Street NW, Apt. 4, Washington, DC 20037 | +1.202.848.5560 | pshuklabaidya@gmail.com |

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## EDUCATION

**THE GEORGE WASHINGTON UNIVERSITY | School of Business | Department of Decision Sciences |**

| M.S. in Business Analytics | Graduated: August 2016 |

**INDIANA UNIVERSITY | Kelley School of Business |**

| B.S. in Finance, Management and International Studies | Minor in Economics | Graduated: May 2013 |

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## PROFESSIONAL EXPERIENCE

**FEDSCORE | Lead Data Scientist |**

| *August 2016 to Present* |

- Led a team of three people in developing FedScore's core scoring engine resulting in a U.S. patent
- Authored the "Vendor Matching Engine and Method of Use" (U.S. Patent No. 10068304)
- Conducted groundbreaking research into quantifying the relationship between federal contractors and federal agencies using publicly available data
- Used advanced knowledge of R and Python to build data processing protocols and statistical modeling algorithms
- Researched cutting-edge modeling and machine learning techniques to achieve project objective
- Conducted experiment design, statistical validation, and interpretation of results
- Designed protocols for extensive data preprocessing, data cleaning, automated data recovery
- Assisted in constructing data architecture of project
- Assisted in system integration resulting in a market-ready SaaS platform

**THE BOONE GROUP | Data Science Consultant |**

| *September 2016 to February 2017* |

- Provided consultation to the clients with regard to their organizational requirements pertaining to Natural Language Processing
- Led a team tasked with developing a customized, comprehensive NLP platform for awareness estimation, topic modeling, sentiment analysis, and subjectivity detection of corpora
- Conducted an extensive review of the state of the art in NLP in order to ascertain final capabilities of the platform and establish the project's outline, objectives, and approach
- Developed a rigorous, theoretical foundation for the conceptual framework of the platform's features
- Devised a unified solution space for the simultaneous projection of all possible subsets of corpora in order to maximize interpretability of results
- Established the groundwork of the architecture for the platform's computational and modeling components in Python and R

**DELTEK | Practicum Student |**

| *January 2016 to August 2016* |

- Led a team tasked with quantifying matching potential between contractors and governmental entities
- Designed the overall framework of the approach employed to achieve project objectives
- Conducted an exhaustive review of pertinent analytical methods based on desired results
- Formulated a strategy to undertake adaptations of the selected methods to enable their application to the data
- Devised a comprehensive data preprocessing plan and performing extensive data cleaning operations in SAS, R and Python
- Performed exploratory statistical analysis, and supervised and unsupervised learning in SAS Enterprise Miner, R and Python
- Executed the project framework, performed validation and testing of results, and derived significant conclusions
- Authored a report detailing project history, methodology, conclusions, analyses of findings and avenues for future work

**INCENTRU | International Project Manager |**

| *September 2014 to July 2015* |

- Held overall responsibility for project involving the design and conduction of a quantitatively sophisticated auction for the Bombay Mercantile Cooperative Bank (located in Mumbai, India) of its nonperforming financial assets
- Engaged client organization, and secured formal solicitation of services offered, via proposal of the project as a viable and lucrative alternative to antiquated & ineffective preexisting processes
- Developed the overarching strategic framework for the successful execution of the project pipeline
- Contributed to the formulation of the modeling approach applied to the principal business problem
- Determined precise requirements for, and performed the collection and organization of, datasets from client's operations as per specifications of modeling approach employed by the team

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- Coordinated functionally in-house & client-side teams, located in different global regions, towards achievement of project goals
- Monitored the primary operational processes (data collection, modeling, insight generation, validation & assessment, and model improvement) of the project to ensure seamless and timely delivery of solutions
- Provided key client-side decision makers with crucial consultations regarding project objectives, framework, progress, and results

**STANFORD UNIVERSITY SCHOOL OF MEDICINE | Research Associate |**

**| June 2013 to August 2014 |**

- Assisted in devising a comprehensive statistical framework for comparative analysis of genomic data in immunological contexts
- Performed statistical analysis and parallelized computations on massive genomic datasets in R
- Optimized decision making in the protocol being employed for determining resource allocation and processing genomic data
- Integrated data processing and quality checking in Python
- Documented project thesis and findings in LaTeX

## DATA SCIENCE REPERTOIRE

### **PROGRAMMING LANGUAGES & TOOLS**

- R
- Python
- SAS
- SAS Enterprise Miner

### **MACHINE LEARNING FRAMEWORKS**

- Linear Models: Linear Regression, Logistic & Multinomial Regression, GLMs, Time Series Analysis
- Decision Trees: CART, C4.5, CHAID, Random Forests
- Support Vector Machines
- Gradient Boosting Machines
- Clustering: Hierarchical, k-means, Fuzzy
- Association Rules Mining: A Priori, ECLAT, FP-Growth
- Neural Networks: Convolutional, Recurrent, Radial Basis

### **DATABASE MANAGEMENT TOOLS**

- MySQL
- PostgreSQL
- MongoDB

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## SELECTED ACADEMIC PROJECTS

**ASSOCIATION OF U.S. FOREIGN AID WITH SOCIOECONOMIC INDICES | Data Analytics |** | *September 2015 to December 2015* |

- Devised the central concept and execution plan for a project analyzing the relationship between U.S. Foreign Aid and several third-party indices measuring political, societal and economic conditions
- Developed and implemented a framework for statistical analysis in R and produced interactive deliverables in Shiny Server

**A HYBRID DATA WAREHOUSE FOR CHICAGO CRIME DATA | Data Warehousing |** | *September 2015 to December 2015* |

- Implemented a combination of dimensional and relational modeling to construct a hybrid Data Warehouse model of a sizable transactional dataset (All crimes reported in the City of Chicago from the year 2001 to present)
- Performed exploratory statistical analysis to obtain meaningful insights into crime trends over time

**CAPSIM | Business Strategy |** | *September 2012 to December 2012* |

- Led a team that placed within the top 5% in a competitive, worldwide business strategy simulation
- Integrated Finance, Marketing, Human Resources, and Management decision making and analysis

**SOUTH AFRICA: ECONOMIC CONDITIONS AND PROSPECTS | Economic and Political Risk Analysis |** | *May 2012 to June 2012* |

- Led a team project with the objective of analyzing the economic conditions and business environment in South Africa
- Authored a detailed report summarizing the key characteristics of the South African economy, prognosticating uncertain future events and corresponding macroeconomic effects, and providing recommendations on the prospects of doing business

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## UNIVERSITY ACTIVITIES & AWARDS

**INTERNATIONAL STUDENT ADVISORY BOARD | Member |**

**| September 2015 to May 2016 |**

- Served as an advisor to the George Washington University School of Business by providing insights, encouraging a sense of community, and contributing towards ensuring a positive and rewarding experience for international graduate students

**BAAC SCHOLARSHIP | Recipient |**

**| July 2015 & January 2016 |**

- Granted Graduate Merit Award recognizing outstanding academic excellence and exceptional talent in Analytics by the George Washington University School of Business

**INDIANA UNIVERSITY MATHEMATICS ASSISTANCE CENTER | Mentor |**

**| August 2011 to May 2012 |**

- Assisted students with the comprehension of theoretical concepts in Mathematics and their application to business models
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