Devika Nair

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Professional Summary

Experienced business analyst turned data scientist with demonstrated history of working in local and state government, the higher education and the soccer industries. Strong IT professional with an MS in Analytics from American University, skilled in regression analysis, data linkage, and visualization.

Education

American University, Kogod School of Business - MS Analytics	2018
Franklin & Marshall College - BA Neuroscience & French Minor	2012

Work Experience

Virginia Tech: Data Science for Public Good

Graduate Fellow
Arlington, VA   May 2018 – August 2018
- Managing team of undergraduates to solve state-level business challenges using data
- Building a composite metrics to measure student performance at Virginia Tech, investigating how academic, demographic, community, and financial factors affect enrollment decisions and student success.
- Discovering and ingesting new geographically-coded data to inform Virginia Cooperative Extension policy decisions

Arlington County Government

Data Analyst Intern
Arlington, VA   April 2017 – May 2018
- Generated data visualizations in Power BI reports and dashboards, by manipulating and building SQL queries across multiple SSMS databases
- Created a project intake and scoring Sharepoint form and process for new team requests
- Led a data analytics themed session of Camp Herricane, an educational workshop for young women leaders in high school to learn about emergency management
- Founded an internal working group for County employees involved in data analysis

DC United

Data Science/Analytics Student Consultant
Washington, DC   August 2017 – May 2018
- Modeled successful team play as it relates to weather and stadium conditions using machine learning techniques
- Generated, cleaned, and transformed datasets in Excel, SQL, and R
- Selected significant features using XGBoost, LASSO, Ridge
- Built a Shiny app to visualize significant trends and predict outcomes
- Presented findings to Major League Soccer executives

The Advisory Board Company

Salesforce Business Operations Analyst, Enterprise Technologies
Washington, DC   March 2014 – April 2016
- Served as internal development liaison for product-oriented and operations teams
- Researched workflows and business processes from both end-users and leadership
- Gathered requirements and prioritization for requests around new functionality
- Collaborated with developer teams and Salesforce system architects to provide input and recommendation on design of functional solutions
- Coordinated and conducted user-acceptance testing for change requests
- Train end-users on general best practices and custom functionality specific to department

Coordinator, Performance Technologies
- Created Salesforce dashboards and reports, as well as running pivot tables and analyses in Excel
- Supported a team of 8 executives & 80+ staff with event planning, training, and project planning

Genetic Alliance	• Served as project manager for a technology training course to improve hospital performance for 150+ clinicians, physicians, and quality analysts • Trained and onboarded new-hires, 2 coordinators and 2 executives **Programs Intern** Washington, DC March – December 2013 • Authored a series of 25 health blogs • Compiled and edited a monograph of patient testimonials and an informational prenatal testing guide for expecting parents • Created visual media, distributed materials, to an ongoing awareness campaign
Buchanan Elementary	**Teaching Aide** Lancaster, PA January – May 2012 • taught science topics at Buchanan Elementary School at two levels: a 3rd grade class (27 students) and a 5th grade class (24 students) • used Full Option Science System (FOSS) curricula to teach geology and graphing • created my own inquiry-based lesson plans
Brain and Spinal Cord Institute	**Research Intern** Paris, France October – December 2011 • created transgenic lines of zebrafish by injecting embryos with plasmids of interest • screened transgenic lines using fluorescence expression patterns • tested an algorithm to quantify their locomotive patterns

Posters & Publications

Schroeder, Aaron; Korkmaz, Gizem; Keller, Sallie; Nair, Devika; Warajuntano, Jay; and Mattingly, Doug. Virginia Tech Metrics: Enrollment Decisions & Degree Completion. Data Science for Public Good Symposium. 2018 Aug. Arlington, VA.

Schroeder, Aaron; Nair, Devika; Kim, Cory; and Kim, Luke. Virginia Cooperative Extension Dashboard. Data Science for Public Good Symposium. 2018 Aug. Arlington, VA.

Nair, D. "Whole-Genome Sequencing and Infectious Disease: A Novel Application of Sequencing Technology." Genetic Testing and Molecular Biomarkers. October 2013, 17(10): 719-720. doi:10.1089/gtmb.2013.1549.

Puffenberger, EG; Jinks, RN; Sougnez, C; Cibulskis K; Willert RA; *et al*. 2012. Genetic Mapping and Exome Sequencing Identify Variants Associated with Five Novel Diseases. PLoS ONE 7(1): e28936. doi:10.1371/journal.pone.0028936

Society for Comparative and Integrative Biology. Charleston, SC. January 2012. Behavioral Profile and Predictors of Social Dominance for Male Green Anoles (Anolis carolensis) During Two Weeks of Cohabitation.

Skills

Domains: Analytics, Business Analysis, Data Science,Text Mining, Feature Selection, Web Scraping, Data Linkage
Tools: R, MS Power BI, Git, SQL, Tableau, RapidMiner, Salesforce, SPSS, Excel
R Packages: Shiny, Dplyr, Tidyverse, Statnet, ModelR, Magrittr, Purrr, Stringr, Rvest, XML
Models: Linear Regression, Classification, K-Nearest Neighbors, Regression Trees, Ridge/LASSO, XGBoost, Support Vector Machines, Neural Net, Random Forest
Languages: French

Relevant Coursework

Management of Information Systems	Business Intelligence	Predictive Analytics
Management Statistics	Business Process Management	Data Science
Database & Big Data	Organization & Social Analytics	Text & Visual Analytics