**Anandkumar Patel**

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**EDUCATION**

**University of Michigan** Ann Arbor, MI

*M.S. in Applied Statistics*  *Aug 2020 - Dec 2022 (expected)*

**Eastern Michigan University** Ypsilanti, MI

*B.S. in Secondary Education and Mathematics (magna cum laude)* *Sept 2013 - May 2017*

**EXPERIENCE**

**University of Michigan**  Ann Arbor, MI

*Research Assistant*  *June 2021 - Present*

* Derived novel methodologies for the theoretical framework used in a predictive model
* Created models and functions to analyze optimal outcomes given a set of restraints and parameters
* Simulated data to validate bootstrap resampling techniques to verify results
* Provided a recommendation for optimal intervention strategies using multiple data sources and analysis of multivariate time-series data for a leading data consultant firm.
* Currently writing a tutorial and health equity paper for peer-reviewed journals and presenting findings at conferences

**Ford Motor Company** Dearborn, MI

*Data Science Intern May 2022 - Aug 2022*

* Delivered credit-risk models in SAS and Python that were approved to put into production
* Used bootstrap regression techniques and model importance analyses to test a variety of machine learning models and identify those with the highest prediction accuracy
* Increase accuracy by 2.5% over the current models used to predict credit risk
* Improved efficiency of model creation process through improvement of data pipelines

**Dexter Community School District** Dexter, MI

*Mathematics Teacher Aug 2017 - June 2021*

* Taught high school math, including AP Statistics and Advanced Algebra
* Created new foundational algebra courses for special needs students to improve mathematical understanding.
* Developed lesson plans focused on student-centered learning to accommodate all levels and styles of learning
* Acted as faculty representative on the Diversity, Equity, and Inclusionary Committee to develop a curriculum for anti-derogatory lessons for the school district.

**ACCOMPLISHMENTS**

* Presented research findings at the University of Michigan MSSISS Conference (2022)
* Nominated for Teacher of the Year (2018 and 2019) and rated as a highly-qualified teacher

**SKILLS AND ADDITIONAL INFORMATION**

**Technical:** Python, R, SQL, SAS, SPSS

**Languages:** Gujarati (conversational)

**Interests:** Tennis, English Premier League soccer, education, traveling