

Contact

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Top Skills

Data Analytics
Management
Leadership

Certifications

DS C15 Diploma Certificate
Mathematics Teacher
Data Science: Bridging Principles and Practice
Certified Professional Autodesk Inventor 207

Jayasree Mangalagiri

Machine Learning Data Scientist- Project Management
Painted Post, New York, United States

Summary

Experience

Corning Incorporated

Machine Learning Data Scientist, Project Management
September 2020 - Present (2 years 8 months)
Corning, New York, United States

Develop and execute data science projects, including application of machine learning to 5G wireless channel measurements and modeling as well as ML solution to “vial converting process”. Help fiber wireless team to build ML models with smarter and less data-intensive solutions. Support process engineers in Corning pharmaceutical business by providing insights to production issues, using statistical analysis for EDA and ML for prediction in yield rate. Conduct meetings with team members to determine viable digital solutions and communicate insights to stakeholders.

- Performed analysis of “converter” data, which opened doors to several research projects. Narrowed research from 200 attributes to ~16 attributes using simple sweetviz analysis and confirming results using feature selection.
- Increased performance of model 8% by suggesting techniques to synthetically generate data during wireless project, with goal of classifying a wireless signal as either line-of-sight or non-line-of-sight (LOS-NLOS).
- Co created research report detailing state of art literature review of machine learning (ML) in wireless communications with experiment detailing classification of wireless signal as LOS-NLOS using ML modeling, with placement in research archives.
- Provided team members with the opportunity to enhance their skills by researching cost-effective yet quality learning platforms for latest trends in ML and artificial intelligence.

US Public Schools

Math Teacher
January 2001 - August 2019 (18 years 8 months)

CORNING HIGH SCHOOL, Corning, NY Sep 2008 – Aug 2019

New York State Master Teacher

- Taught algebra 1 and 2, geometry, and precalculus; completed 100 hours of STEM training.
- Led presentations for master teachers on topics related to hands-on math instruction and coding

CORNING HIGH SCHOOL | New York State Master Teacher Sep 2008 - 2019

- Rated “highly effective” for student annual performance (2008–2018)
- Achieved 96% average pass rate for Regents exams, and 100% pass rate for 9th grade board exam (2010–2011)
- Acted as Coordinator for Math Lab; coached the high school Math Club; and mentored students in the Asian Club
- Coached high school students for Moody’s Math Challenge (2012–2015)
- Served as Science Fair Evaluator (2008–2014)
- Functioned as a writer for Regents Exam 9th and 10th grade math curriculum (2012–2013)
- Established and led GWC Club for girls at middle and high school level to encourage coding in different languages with at least two members pursuing a data analytics degree following high school graduation
- Coordinated the World Expo to showcase cultures from around the world, including arts and crafts, sports, etc.

T L HANNA HIGH SCHOOL, Anderson, SC Aug 2004 – Feb 2008

Teacher

- Instructed students in grades 9–10, covering algebra, geometry, and engineering design
- Assisted during school events; coached and mentored students; and helped during after-school tutoring program
- Received “highly effective” during annual performance reviews
- Recognized as first female instructor for Project Lead the Way for ‘Engineering Design’ utilizing Autodesk Inventor
- Functioned as Coordinator for Relay for Life

BENJAMIN BANNEKER HIGH SCHOOL, Atlanta, GA Jan 2001 – Jul 2004

Teacher

- Created and executed algebra and geometry lesson plans for students in grades 9–10.

- Supported the after-school tutoring program, serving as coach / mentor for struggling students.

Education

Liverpool John Moores University

Master of Science - MS, Data Science · (November 2019 - December 2021)

International Institute of Information Technology Bangalore

PGDDS , Data Science · (2019 - 2020)

UC Berkeley Executive Education

Certification

Osmania University

Master of Education - MEd, Mathematics · (1993 - 1994)

University College for Women, Koti

Bachelor of Science - BS, Electronics · (1989 - 1992)