

Pranav Manjunath

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AWS Machine Learning Certified

EDUCATION

MS in Interdisciplinary Data Science (GPA: 3.957) <i>Duke University</i>	Aug 2020 – May 2022 <i>Durham, NC</i>
BE in Computer Science and Engineering (Certificate of Distinction) <i>Visvesvaraya Technological University (PESIT)</i>	Aug 2016 – May 2020 <i>Bangalore, India</i>

EXPERIENCE

Capstone Researcher - ViacomCBS/MTV <i>Duke University</i>	Aug 2021 – Present <i>Durham, NC</i>
<ul style="list-style-type: none">Working with MTV to find solutions to increase the voter turnout rates amongst youth in the US elections. Specifically, testing a hypothesis that proximity of polling location to universities has an inverse correlation with the student voter turnout rate.	
Health AI Researcher - +DS Program <i>Duke University</i>	May 2021 – Present <i>Durham, NC</i>
<ul style="list-style-type: none">Working with Prof. Michael Pencina, Prof. Ricardo Henao and a team of Duke Researchers on a NIH grant project to build a Stroke Survival Predictive Model.	
Co President - Duke Interdisciplinary Product Management Club <i>Duke University</i>	May 2021 – Present <i>Durham, NC</i>
<ul style="list-style-type: none">Co-founder of a club at Duke to bridge Product Management, Data Science, and Machine Learning. Main responsibilities: Organize Technical Workshops, Seminars, Datathons, Producthons, Strategic Case Competitions	
Project Manager - Data+ <i>Duke University</i>	May 2021 – Aug 2021 <i>Durham, NC</i>
<ul style="list-style-type: none">Will be managing a team of Duke undergraduate students to develop machine learning features that can be used to identify unknown web attacks.Outcome to be incorporated into Duke's IT security infrastructure to help protect the network.	
Data Scientist Summer Intern <i>Advance Auto Parts</i>	May 2021 – Aug 2021 <i>Raleigh, NC</i>
<ul style="list-style-type: none">Clustering and topic modelling customer product reviews into key themes utilizing NLP unsupervised algorithms. Used by business leaders to address customer pain points and trendsFeature engineered product, customer, location and vehicle data from various sources leveraging SQL and PythonPresented results and recommendations to stakeholders, company technical interest group and c-suite executive.	
Graduate Teaching Assistant <i>Duke University</i>	Dec 2020 – Present <i>Durham, NC</i>
<ul style="list-style-type: none">Programming for Data Analytics (Fuqua School of Business) - Prof. Brian Cozzi: Organize weekly office hours to help students with coursework and teach them concepts in Python and R Programming.Data Engineering in the Cloud - Prof. Noah Gift: Help structure the course, grade and review assignments, organize office hours to help students with the coursework.Data Analytics and Applications (Fuqua School of Business) - Prof. Mattia Ciollaro : Organize weekly office hours to help students with coursework and teach them concepts in Machine Learning.Cloud Computing for Data Analysis - Prof. Noah Gift: Help structure the course, grade and review assignments, organize office hours to help students with the coursework.Python Winter Course and MIDS Bootcamp - Prof. Andrew Hilton and Prof. Genevieve Lipp: Organize office hours for students to help teach them Python Programming.	
Machine Learning Intern <i>Microland Limited</i>	Jan 2020 – Mar 2020 <i>Bangalore, India</i>
<ul style="list-style-type: none">Worked on implementing NLP techniques to effectively cluster in-house generated tickets with appropriate topic modeling (Python).	

- Used HTM to identify anomalies in server data (Python).

Trainee Decision Scientist Intern

Jan 2019 – Apr 2019

Mu Sigma

Bangalore, India

- Worked collaboratively on a project with a multinational pharmaceutical client in developing a plug and play analytical and statistical platform to implement data pre-processing and regularized regression models. The platform was built on R and R Shiny.

PROJECTS

Breast Cancer Image Classification - Computer Vision Project	Aug - Dec 2021
• Identifying Data Augmentation on Breast Cancer Images to improve Deep Learning model performance	
Painting Classification - Computer Vision Project	Jan - May 2021
• Used CNN-XG Boost Model to classify and predict paintings into its respective genre and artist	
Small World Experiment - Reinforcement Learning Project	Jan - May 2021
• Trained a Q-Learning Model to determine the shortest connectivity between two unknown individuals	
Facebook Promotional Strategy - AB Testing	Jan - May 2021
• Designed, Implemented, and Analyzed Music Promotional Ads on Facebook	
Real Time Prediction of Stock Prices using Time Series Modelling (AWS)	Aug - Dec 2020
• Created a Dash Application hosted on AWS that Predicts Stock Prices through ARIMA	
Prediction of Genre based on Spotify Musical Features	Aug - Dec 2020
• Built an R-Shiny Application that predicts the genre of a song and display similar songs through similarity matching	
BERT - Multi Emotion Classification of Social Media Comments	Aug - Dec 2020
• Built a Python Application that can predict and display the emotion of Social Media Comments	
PlaceMeUp - Job Placement ML Prediction Platform	Aug 2019 - May 2020
• Built a Supervised ML Pipeline that can be used to predict Undergraduate student jobs based on their scores	
EyesPRO - Protect Your Eyes	Jan - May 2018
• Android Mobile Application to help reduce myopia in children. Converted into a research paper and won the Best Paper Award at RISE Conference 2018.	

PUBLICATIONS

Springer Publications - Book Chapter in Algorithms for Intelligent Systems	Aug 2019
<i>Pranav Manjunath & Kushal Naidu</i>	
Title: Apriori Algorithm and Decision Tree Classification Methods to Mine Educational Data for Evaluating Graduate Admissions to US Universities - Paper Link	
International Journal of Scientific Research in Science and Technology	May 2018
<i>Pranav Manjunath & Nimisha V Arun</i>	
Title: EyesPro - Protect your Eyes - Paper Link	

SKILLS

Programming Languages: Python, R, SQL (MySQL and Postgres), C

Cloud Services: AWS Machine Learning Certified, Google Cloud Platform

Leadership: Co-Founder of CARE - Career Counselling Services, aiming to guide undergraduate students for Job Placements and Higher Studies (currently over 320 members).

Co - Founder of an internationally acclaimed violin duet band with my brother, Boston Brothers.

Was in the organizing committee of TEDxPESITBSC, international conferences, cultural, and music programs in PESIT.

EXTRA CURRICULAR ACTIVITIES

Professional Violinist and Music Teacher

Trained in Indian Classical Carnatic Music

Music is my passion and has taught me discipline, hard work, perseverance, time and people management, teamwork, creative thinking and leadership skills. It has provided me an opportunity to travel and perform across the world, meeting diverse people and learning various cultures and traditions. Teaching has taught me communication skills, how to simplify complex ideas and to be patient.

Performed over 500 concerts worldwide and have received multiple awards, honors and citations.

Received the 1st Rank in the highest Indian Classical Music Examination - Vidwath

Boston Brothers - an Indian classical and fusion band that I formed with my brother, collaborating with international musicians.

Taught 25 students at a music academy in Bangalore and continues to conduct online classes for several students.

Contribute part of my earnings to charity, to support the education of poor students. I have performed for several fund-raising concerts in the last two years to support local artists during the COVID-19 pandemic. As a band we have played in old age homes, charities, orphanages, to help spread the joy of music.

Sports

Swimming | Cricket

Won several trophies and medals at District Level Swimming, Boston USA and played for Mallya Aditi International School's Cricket Team (High School) for 4 years.