Pranav Mittal

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EDUCATION

M.S Computer Science (Arizona State University)	**Expected May 2025**
B.S Computer Science	**May 2024**
Minor: Business	
Arizona State University	**GPA: 3.96/4.0**

Honors: Summa Cum Laude, Dean's List: Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023, Fall 2023

TECHNICAL SKILLS

Programming Languages: Java | Python | C++ | JavaScript | React | HTML5 | MySQL | JavaFx | Junit | SwiftUI | Rest API
Tools: Linux | MacOS | Selenium | VS Code | XCode | Machine Learning | Jupyter | Google Colab | Unity | Atlassian JIRA
Libraries: TensorFlow | NumPy | Pandas | Matplotlib | PyTorch | Seaborn | OpenCV | scikit-learn | Keras

PROFESSIONAL EXPERIENCES

XR Developer and Tech Lead   **September 2023 – May 2024**
Meteor Studio, Arizona State University   **Tempe, AZ**
- Tech Lead for DSL Mars Exploration Experience at Dreamscape Immersive and XR Developer for experience.
- Uses advanced visual capture and processing systems of Microsoft Kinect to process image and use in AR/VR.
- Implemented Microsoft's Azure Kinect to capture athlete's movement and other object to depict using AI.

Software Developer Intern   **June 2023 - August 2023**
Hexagon AB   **India**
- Implemented a new feature to the Apollo software to display names of files searched by co-ordinates or string.
- Developed new GUI to navigate missile path around globe and demonstrated it to Indian Defense System.
- Collaborated in a team of 4 to create a new GUI in Python Luciad Lightspeed Software and did Full Stack Development.

Software Engineering Intern   **May 2021 - November 2021**
Insigma Technologies Inc   **New York (Remote)**
- Built a face mask detection model deploying TensorFlow & Pandas would detect if a person is wearing mask.
- Served in sample security cameras during time period of COVID-19 at various locations.
- Formulated with over 2000 sample images with three different types of masks for training and testing purposes.

RELEVANT PROJECTS

Sign Language Detection System for Mute/Deaf People   **February 2024 - April 2024**
- Recognized for outstanding design with 98% accuracy; developed heuristic model capable of registering hand gesture.
- Deployed computer modeling and image processing algorithms, building neural network with 90% accuracy.
- Demonstrated strong technical proficiency in leveraging new technologies, including OpenCV and machine learning, to create a user-friendly platform bridges communication gaps for mute people.

Directional Stock Price Prediction using Tweets and News   **January 2024 – April 2024**
- Engineered a predictive analytics web tool leveraging NLP and machine learning techniques, including BERT, LSTM, and XGBoost, achieving 78% predictive accuracy.
- Employed HTML and CSS to architect a user-centric interface facilitating dynamic retrieval and analysis of open-source news for Fortune 500 stock price predictions, customizable over user-defined intervals.

Meal Selection App   **August 2020 - November 2020**
- Developed a Meal Recipe App using JavaScript, React-Native, and Expo where a person can select any meal of choice and get the ingredients and method to make that recipe.
- Prepared gourmet meals for buffet and facilitated improvement of nutrition measure by 25%.
- Generated recipe to a specific kind of dish selected by user and can be star marked as favorite by user.

OTHER EXPERIENCES

Technical Assistant   **January 2022 - Present**
Dreamscape Immersive, UTO, Arizona State University
- Guide biology students demonstrate treatment of cancer causing cells using Augmented and Virtual Reality shows.
- Solve troubleshooting and technical problems with VR and tracking devices.
- Hosted multiple AR and VR demonstration to showcase capabilities of new technologies to investors.

Undergraduate Teaching Assistant   **January 2023 - May 2023**
Arizona State University
- Instructed Principles of Programming (CSE 110) course's lab and helped 120+ students implementing java language.
- Conduct office hours to teach extra material and help in assignments and troubleshooting errors.

LEADERSHIP EXPERIENCE

Co-Technical Director, Sun Devil Data Science, ASU   **June 2021 - August 2022**
- Hold workshops of Data Science and lead presentation about different tools of data science.