

# Rahul Gupta

http://www.rahulguptatech.com

Email : rahul@guptatech.com

Mobile : +1-456-789-0123

## EDUCATION

---

- **Carnegie Mellon University** Pittsburgh, PA  
*Master of Science in Artificial Intelligence; GPA: 3.90* Aug. 2013 – Dec. 2014
- **NIT Trichy** Trichy, India  
*Bachelor of Technology in Computer Science; GPA: 3.75 (9.38/10.0)* Aug. 2009 – July. 2013

## EXPERIENCE

---

- **Apple** Cupertino, CA  
*Machine Learning Engineer* Feb. 2018 – Present
  - **CoreML**: Optimized on-device machine learning models for iOS applications, leveraging CoreML to improve inference speed by 30% and reduce battery consumption for end users
  - **Data Pipelines**: Designed and implemented data processing pipelines for Siri analytics using Spark, handling large-scale datasets to enable real-time insights and improve feature performance
  - **Tools**: Developed and maintained internal tools for model evaluation and monitoring, integrating with dashboards to streamline debugging and enhance model accuracy by 25%
- **LinkedIn** Sunnyvale, CA  
*Software Engineer* Jan. 2015 – Jan. 2018
  - **Search Engine**: Improved search ranking algorithms by integrating user behavior data, increasing click-through rates by 10% and enhancing search relevance across platforms
  - **Data Infrastructure**: Built and scaled ETL pipelines for user data using Hive, optimizing data flows to support analytics and reduce processing time by 30%
  - **APIs**: Designed and deployed REST APIs for profile analytics, enabling seamless data access for internal tools and third-party integrations
  - **Analytics Platform**: Created a robust platform for A/B testing of new features, streamlining experimentation and improving feature deployment efficiency by 20%
- **Open Source Contributions** Remote  
*Contributor* 2014 – 2017
  - **ML Frameworks**: Contributed to PyTorch for distributed training, adding features for large-scale model optimization used in production environments
  - **Visualization**: Developed Plotly components for 3D data visualization, enabling interactive charting for complex datasets in over 400 projects
  - **Blogging**: Authored over 50 technical articles on machine learning, data pipelines, and scalable systems, widely read in the tech community
- **Mu Sigma** Bangalore, India  
*Data Scientist* Summer 2013
  - **Risk Models**: Built and validated risk assessment models for finance clients, achieving high accuracy and enabling data-driven investment strategies
  - **Dashboards**: Developed and deployed Tableau dashboards for client reporting, automating data visualization and improving reporting efficiency

## PROJECTS

---

- **Image Recognition**: Built a CNN-based image classification system
- **Network Analysis**: Created tools for visualizing network graphs
- **Forecasting Tool**: Designed a sales prediction model for e-commerce
- **ETL System**: Developed a pipeline for real-time data integration

## PROGRAMMING SKILLS

---

- **Languages**: Python, Java, C++, SQL, JavaScript
- **Technologies**: AWS, TensorFlow, Hive, Tableau, Kubernetes