Aravind Cheruvu

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Education

- **Virginia Polytechnic Institute and State University(Virginia Tech)** Blacksburg, Virginia
  M.S. in Computer Science; GPA: 3.50/4.00 *Aug. 2021 – May. 2022**

  Research Thesis: Design and Study of Proactive Defenses Against Deepfake Attacks.
  Graduate courses: Data Analytics, Deep Learning, Hot Topics in Security and AI, Theory of Algorithms, Advanced Machine Learning
- **Jawaharlal Nehru Technological University (VNR VJIET)** Hyderabad, India
  Bachelor of Technology in Information Technology; GPA: 8.51/10.0 *Aug. 2012 – May. 2016*

Technical Skills

- **Programming Languages:** Python, Java, C, C++, HTML/CSS
- **Machine Learning Libraries:** PyTorch, Numpy, Scikit-Learn, Pandas
- **Developer Tools:** SQL Developer, VS Code, Eclipse, Netbeans, Android Studio, Weka
- **Technologies/Frameworks:** Linux, GitHub, Java Swing, AWT
- **Oracle Tools/Software:** Oracle SQL, Oracle HCM Cloud HR and Payroll Module, Payroll Parallel/Reconciliation Tool(Data Analysis), HCM Extracts, Oracle BI Reports, Fast Formulas

Experience

- **Deloitte Consulting** Hyderabad, India
  - Certified Techno-Functional payroll consultant with 4.5 years of experience in RICEF delivery and Payroll data analysis working for many US based large scale clients in the Financial, Health, Security and Government sectors.

  Senior Consultant *Jul. 2021 - Jul. 2021*
  - Planned and executed Payroll compare and Provider Compensation compare cycles for Healthcare client with 120k+ workforce using a custom tool designed to compare compensation rules for providers pay between Legacy and test system.

  Consultant *Sep. 2018 - Jun. 2021*
  - **Payroll Reconciliation:** Led planning and execution of Payroll Compare cycles to analyze $MM payroll data working closely with multiple stakeholders, identify system implementation defects, Go-Live and Post Production impacts mitigating risks of Production Go-Live.
  - Developed and streamlined Payroll Compare Tool which uses payroll run data between Legacy and simulated Test systems to produce Payroll Compare reports and Executive Dashboards to extensively perform Payroll data analysis and understand system quality.
  - **Payroll RICEF:** Supported payroll configuration, Coordinated and executed SIT and UAT testing cycles and proposed functional design solutions for nearly 30 RICEF objects.

  Business Analyst *Dec. 2016 - Aug. 2018*
  - **Technical Developer:** Worked as a Technical team member implementing key out-of-box integrations using HCM Extracts, BI Publisher Reports and developed Payroll Fast Formulas.
- **Tata Consultancy Services** Hyderabad, India
  Assistant System Engineer - Trainee *Jun. 2016 - Sep. 2016*
  - Trained in E-Business Suite, Oracle Business Intelligence EE and Oracle Data Integrator tools.

Projects

- "Design and Study of Proactive Defenses Against Deepfake Attacks" - Masters Research Thesis advised by Dr. Bimal Viswanath.
- System and Method for Diagnosis of Diseases From Medical Images - Granted Indian Patent No. 387074
- System and Method to Generate Time-Profiled Temporal Pattern Tree - Granted Indian Patent No. 397728
- Feature Clustering for Anomaly Detection Using Improved Fuzzy Membership Function.

Publications

- Shadi Aljawarneh, V. Radhakrishna, and Aravind Cheruvu. VRKSHA: A Novel Multi-Tree Based Sequential Approach for Seasonal Pattern Mining. In Proc. of ICEMIS, 2018
- Gunupudi Rajesh Kumar, Nimmala Mangathayaru, Gugulothu Narsimha, and Aravind Cheruvu. 2018. Feature Clustering for Anomaly Detection Using Improved Fuzzy Membership Function. In Proc. of ICEMIS, 2018
- S. A. Aljawarneh, V. Radhakrishna and A. Cheruvu, Extending the Gaussian membership function for finding similarity between temporal patterns. In Proc. of ICEMIS, 2017
- Shadi Aljawarneh, Vangipuram Radhakrishna, and Aravind Cheruvu. Nirnayam: fusion of iterative rule based decisions to build decision trees for efficient classification. In Proc. of ICEMIS, 2019